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G. S., 8263/M. T. 2(P)

ROMAN URDU

Small Arms Training,

Volume I, Pamphlet No. 7, (INDIA)

'303-Inch Machine Gun PART I.—MECHANICAL SUBJECTS

1940

(Translation of Small Arms Training Vol. I, Pamphlet No. 7, (India) 303-inch Machine Gun Part I—Mechanical Subjects, 1940).

Issued by the General Staff in India.

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ROMAN URDU

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Chhattiswan Saban, Director Would

SMALL ARMS TRAINING

Vol. I, Pamphlet No. 7, (India)

·303-INCH MACHINE GUN.

PART I_MECHANICAL SUBJECTS,

1940.

HADISE SE BACHNE KI IHTIYATEN.

Har die mauge par jabkih sikhlái ke kámon ke lie dummy round istemál kie jáen, instructor had a bachne ki niche batái hui hidáyaton par zarur

- Tamám lockon ka muláhaza karke apna itminán kar le kih striker, firing pin hole men se nikalta to nahin hai.
- Tamám ammunition ka muláhaza karke dekhe kih us men koi jangi round to nahin hai.

Jab kabhi gun wagaira ke purzon ki chál ki D. P. wála sámán (agar mil sake) istemál

PAHIA SABAQ.—ZARURI SAMAN AUR ÁM BAYAN.

Instructor ke lie note.

(Taswir I) (Roman Urdu Vickers Handbook ki Taswir 10).

Zaruri sámán.—Gun, tripod, belt box, belt aur dummy round, spare parts case, condenser aur tube,

gun chest, spare barrel, cleaning rod (Naqsha—agar mil sake).

Yih umid na karni cháhie kih jawán tamám hisson aur purzon ke nám yád rakhe.

Gun aur tripod ke sirf bare bare hisson aur purzon ka bayán karo aur bayán ke sáth sáth har ek hisse ya purze ka nám bhi batáo.

Gun ko kholkar wuh hisse aur purze dikháo jo recoil hone men kám dete hain ya jin par recoil hote waqt asar parta hai.

Jawánon ko zor de dekar samjháo kih tamám hisse aur purze bare mazbut banáe gae hain.

Gun ko páni se thanda rakhne ka bandobast samjháte waqt, agar mil sake to naqshe se kám lo.

- 1. Gun ka nam. 303" Vickers Machine Gun.
- 2. Gun ka wazan.—Koi 40 pound yane 20 ser. (Jabkih barrel casing men páni bhara ho).
- 3. Fire ki raftår.—Ek minute men koi 500 round.
 - 4. Gun ke purzon ko kaunsi táqaten chaláti hain.—
 Gun ke purzon ko do táqaten chaláti hain:—
 - (a) Round ke andar ki bárud ke jal uthne se jo zor paida hota hai wuh recoil hone wále hisson ko pichhe ko chala deta hai, aur—
 - (b) Fuzee spring ka dabáo jo recoil hone wále hisson ko bhi áge ko chala deta hai: is tarah gun ke hisse in do táqaton ke zor se áp hi áp harakat karte hain.

Become another more property

5. Recoil hone se kin kin hisson aur purzon par asar parta hai.

Recoil hone se in in hisson aur purzon par asar parta hai:—

Muzzle cup.

Barrel.

Right side plate aur left side plate.

Crank aur crank handle.

Fuzee spring.

Connecting rod.

Lock.

Feed block.

(Gun ke hisson aur purzon ko dobára joro).

6. Barrel casing.—Barrel casing men, báhar ki taraf yih chizen lagi hoti hain:—

Muzzle attachment, foresight, do pechdár plug (páni bharne aur kháli karne ke lie) condenser ka adapter tube aur cork plug.

Barrel casing ke andar barrel aur steam tube lage hote hain. Barrel ke gird páni rahta hai, tákih barrel ziáda garm na hone páe. Gun ke fire hone se barrel garm hone lagta hai aur barrel ke garm hone se barrel casing ka páni garm hone lagta hai. Koi 750 round fire hone par páni khaulne lagta hai aur us men se bháp nikalne lagti hai.

Andar ki taraf aur barrel casing ki uparli satah men jura hua ek steam tube (bháp nikalne ki nalki) hota hai, jis men ek khisakne wála valve laga hota hai. Steam tube men tin surákh bane hote hain, ek pichhe ki taraf aur do áge ki taraf.

Jab gun, elevation lagákar fire ki játi hai to valve khisak-kar pichhe ki taraf ke surákh ko band karta hai jis se bháp áge ki taraf ke surákh men dákhil hokar steam tube men se hoti hui báhar nikal játi hai.

Jab gun ko depression dekar fire kia játa hai to valve khisak-kar áge ki taraf ke surákh ko band karta hai, jis se bháp pichhe ki taraf ke surákh men dákhil hokar usi tarah steam tube men se hoti hui báhar nikal játi hai.

Adapter men condenser tube jura hota hai. Bháp isi men se hokar steam escape tube se condenser men chali játi hai. Bháp ko thanda karke use phir páni banáne ke lie zaruri hai kih itna káfi páni ho kih us men condenser tube ka sira duba rahe.

- 7. Breech casing.—Breech casing in hisson se milkar bana hai. Do out-side plate, bottom plate front cover aur rear cover, aur rear cross-piece. Breech casing se báin taraf yih hisse aur purze lage hote hain. Fuzee spring, fuzee spring box, aur left slide. Breech casing se dahni taraf check lever aur right slide laga hota hai. Rear cover par tangent sight; bottom plate par sliding shutter: aur rear cross-piece par traversing handle, safety catch aur thumb piece lage hote hain. Rear cross-piece ek "T" fixing pin ke zarie apni jagah par qáim rahta hai.
- 8. Feed.—Gun meu ek belt ke zarie (jis men 250 round hote hain) ammunition pahunchta hai. Belt, feed-block men dahne se baen ko chalta hai.
- 9. Tripod Tripod jis ke tin páe hote hain in hisson se milkar bana hota hai:—

Jamming handle, crosshead, traversing clamp, direction dial aur elevating gear. Crosshead men do pin lage hote hain, cross-head joint pin aur elevating joint pin. Gun inhi ke zarie tripod men jori jati hai.

Elevating gear ke zarie elevation (ya depression) aur traversing clamp ke zarie direction hasil kia jata hai.

Tripod ka wazan koi 25 ser hota hai.

- 10. Gun chest.—Jab gun ko ek jagah se dusri jagah le jána hota hai to us ko ek sanduq men band karke le játe hain jo gun ke sáth dia játa hai aur jis ka nám gun chest rakha gaya hai. Gun chest men gun ke aláwa clearing rod aur fáltu barrel bhi rakha játa hai.
- 11. Gun. ki khubián.—(a) Yih der tak lagátár fire kar sakti hai, aur yih is lie kih:—

1. Barrel ko páni se thanda rakhne ka jo bandobast kia gaya hai us ki wajah se barrel ziáda garm nahin ho játa.

2. Belt feed ki wajah se gun men ammunition barábar pahunchta rahta hai, aur

- 3. Kám karne wále hisse aur purze mazbut hote hain, jis se gun bahut kam tutti ya bigarti hai.
- (b) Gun ka nishána bara durust hota hai, kionkih ek to us ka mounting bhári hone ki wajah se kam hilta hai, dusre mounting men gun khub kaskar lagi rahti hai.

Gun se indirect fire aur overhead fire kia ja sakta hai.

Agar ujále men pahle se munásib taiyárián ki gai hon to gun se andhere men bhi fire kia ja sakta hai.

- 12. Niche batáe hue kámon ka namuna dikháo.
- (a) Load karna. (b) Fire karna. (c) Unload karna.

SECTION 2.—CHAL

PAHLA SABAQ.—DUSRE SE CHHATE SABAQ TAK KE LIE ZARURI SAMAN.

Instructor ke lie note

Zaruri sámán.—Gun, tripod, belt box, belt aur dummy round, khokha, fáltu, lock aur fáltu feed-block, keleton lock, nagshe.

Har ek sabaq ke tin hisse hain, yane "taiyari" "kam namuna" aur "bayan." In men se pahla hissa sirf instructor ke lie hai. Mamuli sipahi kam ki naql na karen. Jo chal samjhani ho us ka namuna dikhao aur ath hi sath naqshon se kam lete hue zaruri batea samjhate jao.

DUSRA SABAQ.—PICHHE KI TARAF KI CHAL.

Instructor ke lie note

Talyari. Talyari san tos stad id stor ava sa hamor

1. Outer casing ka muzzle attachment kholkar alag kar lo.

- 2. Gib ke uparle aur nichle projection ke darmiyan ek khokha rakho.
 - 3. Half load karo.
 - 4. Thumb-piece dabáo.
- 5. Fuzee box aur fuzee spring kholkar alag kar lo.
 - 6. Rear cover utháo.
- 7. Fáltu feed-block ko bottom pawlon ke áge ek dummy round rakhkar taiyár karo.
 - 8. Sikhlái dene ki ám tartib yih honi cháhie: -
 - (a) Gun ko mount karna.
 - (b) Áhista áhista namuna dikháte hue aur jawánon se sawál karte hue tamám báten achchhi tarah samjhána.
 - (c) Namuna dikháte hue bayán karna.
 - (d) Jawánon se sawál karna.
 - (e) Gun ko sirf instructoron ke lie mount karna.

Kám ka namuna.

- 1. Sámne ki taraf se recoil hone wále hisson ko dhakelkar pichhe ko le jáo aur yih kám karte hue jawánon se kaho kih:—
 - (a) Recoil hone wale purzon ko pichhe ki taraf hatte dekhen.
 - (b) Feed-block slide ko dahni taraf ko chalte dekhen.
- 2. Fáltu feed-block se kám lete hue dikháo kih feed block kis tarah kám karta hai.

Bayán.

3. Gun ke fire hone par recoil hone wale hisse dhakka khakar pichhe ko chalte hain. Recoil karne wale hisson ko pichhe hatne men wuh gas bhi madad deti hai jo round ke fire hote hi bare zor se front cone par dhakka marti hai aur palatkar muzzle cup se takrati hai. Recoil hone wale hisson ke pichhe ko harakat karne se

feed-block slide dahni taraf ko chalta hai, jis se top pawl ek round ke pichhe ja lagte hain jo pahle se bottom pawlon ke age hai.

TISRA SABAQ. — Crank Handle KA GHUMNA.

Instructor ke lie note.

Taiyári.

- 1. Outer casing ka muzzle attachment kholkar alag kar lo.
- 2. Gib ke uparle aur nichle projection ke darmiyán ek khokha lagáo.
 - 3. Half load karo.
 - 4. Thumb-piece dabáo.
 - 5. Fuzee box aur fuzee spring kholkar alag kar lo.
 - 6. Rear cover utháo.
- 7. Fáltu feed block ko bottom pawlon ke áge ek dummy round rakhkar aur slide ko dahni taraf ko chalákar taiyár karo.

Kám ka namuna.

- 1. Recoil hone wále hisson ko sámne ki taraf se pichhe ko dhakelkar le jáo yahán tak kih crank handle sidha khare rukh a jáe. Crank handle ka knob dabáo tákih crank ka chakkar pura ho jáe. Phir jawánon se kaho kih yih kám hote dekhen:—
 - (a) Crank handle ke pichhle sire ka ghumna.
 - (b) Fuzee spring ka khichkar barhna.
 - (c) Crank handle ka aur ziáda ghumna, jis se recoil karne wále hisse áge ko chalte hain aur feed-block slide báin taraf ko chalta hai.
- 2. Fáltu feed-block se kám lete hue dikháo kih us ke purze kis tarah kám karte hain.

Bayán.

1. Jab recoil hone wále hisse pichhe ko chalte hain to crank handle ka pichhla sira roller se takráta hai, jis se crank ghumne lagta hai. Crank ke ghumne se lock khichkar pichhe ko chalta hai.

Crank ke ghumne se fuzee chain, fuzee par lipat játa hai jis se fuzee spring khichkar barh játa hai.

2. Roller par crank handle ke aur ziáda ghumne se aur kuchh fuzee spring ke khicháo ke zor se barrel aur side plate áge ko chalta hai.

In ke is tarah áge chalne se feed block slide par dabáo parta hai jis se wuh báin taraf ko chalta hai aur top pawl ek round ko aisi jagah rakh deta hai kih us ko extractor pakar le. Sáth hi sáth bád ka round khichkar bottom pawlon ke áge a játa hai.

CHAUTHA SABAQ.—Lock KA PICHHE KO CHALNA.

Instructor ke lie note.

Taiyári.

- 1. Gib ke uparle aur nichle projection ke darmiyan ek khokha rakho.
 - 2. Half load karo.
 - 3. Thumb-piece dabáo.
 - 4. Fuzee box aur fuzee spring kholkar alag kar lo.
 - 5. Rear cover utháo.

Kám ka namuna.

- 1. Crank handle ko khenchkar roller per le áo. Jawánon se kaho kih niche batáe hue kám hote dekhen:—
 - (a) Jangi round aur khokhe ka khichkar nikal
- (b) Jangi round ka khichkar chamber ki sidh men a jána.

- (c) Tumbler ka ghumna.
- 2. (Skeleton lock se kám lete hue).

 Jawán niche batáe hue kám hote dekhen:—
 - (a) Tumbler ka ghumna.
 - (b) Firing pin ka pichhe ko khich ána.
 - (c) Lock spring ka dabkar simat jána.
 - (d) Sear ka kám karna.

Bayán.

Jab lock pichhe ko chalne lagta hai to wuh feed block men se ek jangi round aur chamber men se ek khokha nikálkar apne sáth pichhe le játa hai. Junhi kih extractor ke sing, camon ke pichhle sire par pahunchte hain, extractor un rampon se dabkar niche ko utar áta hai jo rear cover par bane hote hain. Is tarah extractor jangi round ko chamber ki sidh men láta hai; aur khokha ám taur par alag hokar gir játa hai. Is harakat ke daurán men side lever head uthkar tumbler ke pichhle sire par dabáo dálta hai. Tumbler ke is tarah ghumne se firing pin pichhe ko khichkar lock spring ko dabáta hai. Firing pin ko sear roke rahta hai.

PANCHWAN SABAQ.—Lock KA AGE KO CHALNA.

Ham he namuns.

pichie ke le jata hai.

Instructor ke lie note.

Taiyari. Ida data tak od sais slidaiq ad require rad

- 1. Half load karo.
- 2. Fuzee box ko kholkar alag kar lo.
- 3. Crank handle ko khenchkar roller par le áo aur belt ko khencho.
 - 4. Rear cover utháo.

Kám ka namuna.

Fuzee spring ko khenchkar crank handle ko check lever par le áo. Jawán yih kám hote dekhen:— Fuzee chain ka khulna.

Lock ka áge ko chalna.

Bayán.

1. Fuzee spring ke khicháo se crank ghumta hai aur lock ko áge ko dhakel deta hai. Extractor jangi round ko chamber men rakh deta hai aur side leveron aur extractor leveron ki harakat se uthkar us round ko pakarta hai jo ab feed ke munh men a gaya hai. Ab chamber men lage hue round ka penda firing pin hole ki sidh men a gaya hai. Agar khokha alag hokar gir na gaya to wuh extractor ke uthne par uchhalkar alag ho jáega.

CHHATA SABAQ.—Fire KARNE MEN PURZON KI CHAL.

Instructor ke lie note.

Taiyári.

- 1. Half load karo.
- 2. Rear cover utháo.
- 3. Crank handle ko khenchkar roller par le áo aur belt ko khencho.

Kám ka namuna.

- 1. (a) Lock ko áge ko chalne do aur sáth hi yih dikháo kih sear ko side lever head kis tarah dabáta hai.
- (b) Thumb-piece ko dabákar dikháo kih trigger bar, trigger ke pichhle sire ko kis tarah khenchkar pichhe ko le játa hai.
- (c) Thumb-piece par se dabáo hatte hue dikháo aur yih dikháo kih is se trigger bar kya kám karta hai.
- 2. Skeleton lock se kám lete hue—upar (a), (b) aur (c) men batáe hue kám duhráo.

Bayán.

1. Har dafa jab lock áge ko chalta hai to side lever head, sear ko daba deta hai. Is se firing pin chhutkar áge ko chalta hai yahán tak kih trigger ka

nose tumbler ke bent men lag játa hai, jis se firing pin ruk játa hai. Agar safety catch uthákar thumb-piece ko dabáya jáe to trigger bar khichkar pichhe ko hatta hai, jis se trigger ka nose bhi tumbler ke bent se alag ho játa hai. Ab firing pin, lock spring ke zor se áge ko chal parta hai.

2. Jab tak thumb-piece par dabáo qáim rakha játa hai, fire lagátár hota rahta hai, kionkih trigger ka nose tumbler ke bent se alag rahta hai aur is wajah se trigger firing pin ko áge chalne se nahin rokta. Dabáo hatne par trigger ka nose phir tumbler ke bent men lag játa hai jis se firing pin áge chalne nahin páta.

SECTION 3.—GUN AUR TRIPOD KO ACHCHHI HÁLAT MEN RAKHNE KE MUTAALLIQ ÁM HIDÁYATEN.

1. Gun ko sáf suthra aur achchhi hálat men rakhna niháyat zaruri hai, tákih us se jo kám lena ho lia ja sake.

Machine gunon aur un ke sáth wále sámán ka charge lete waqt, muláhaza karna cháhie. Bád men bhi aksar un ka muláhaza karte rahna cháhie.

Instructor ke lie note

Zaruri sámán.— Gun, tripod, belt box, dummy round, spare parts box aur case, cleaning rod, falálain, purána suti kapra.

Yih sámán Hindustáni faujon ko dia játa hai.

SATWAN SABAQ.—SAFAI.

(a) Roz ki safái.

Gun ko har roz báhar se sáf kia jáe. Kám karne wále jin hisson aur purzon tak háth pahunch sake unhen ek aise chithre se ponchh lia jáe jo tel men tar karke nichor dia gaya ho. Bore ki satah par tel lagákar chhor do. Roz ki safái ho chukne par gun ka muláhaza kia jáega. Is men yih dekha jáega kih gun

sáf suthri hai kih nahin aur us ka koi hissa tuta phuta to nahin hai. Bore ka muláhaza karne ke lie mirror reflector yane us chhote áine se kám lia jáe jo isi matlab ke lie hota hai.

Barrel sáf karne ka tariqa.—Lock nikálo aur muzzle attachment aur muzzle cup ko kholkar alag kar lo. Ab cleaning rod ke náke men sukhe falálain ki ek chindi (4×2 inch ki) dálkar barrel men muzzle ki taraf se guzár do. Is bát ka zarur itminán kar lo kih muzzle par bush charha hua ho. Phir cleaning rod ko bár bár áge pichhe chaláo. Is ke bád falálain ki sáf chindián laga lagákar yihi kárrawái us waqt tak karte jáo jab tak barrel sáf na ho jáe.

Mirror reflector ke zarie bore ka muláhaza karo.

Barrel men tel lagána.—Upar batái kárnawái duhráo magar ab ke falálain ki zara chhoti chindi istemál karo, jo tel men khub tar ho.

Double pull-through se kám lena.—Double pull-through istemál karne se pahle do báten dekhni zaruri hain, ek yih kih us ka weight terha merha na ho dusre us ki rassi achchhi hálat men ho. Us ki jáli par khub achchhi tarah tel lagáo aur dekhkar apna itminán kar lo kih barrel par muzzle protector charha hua hai.

Yih zaruri hai kih barrel ko sáf karne ke lie gun men se kholkar alag kia jáe. Agar barrel ko pullthrough ke zarie sáf kia jáe to use kisi munásib shikanje men kas dena cháhie ya kisi jawán se kah dena cháhie kih use mazbuti se pakre rahe. Iske bád pull-through ko barrel ke andar áge pichhe chaláya jáe.

Iska bara khayál rakho kih pull-through ki rassi barábar tani rahe aur barrel ka breech wála sira rassi se ragar khákar ghisne na páe. (Dekho 1.A.O. 924 bábat 1936.)

Barrel khaulta páni istemál karke bhi achchhi tarah sáf kia ja sakta hai. Is ke lie barrel ko gun men se kholkar alag kar lo phir wuhi kárrawái karo jo rifle ka barrel sáf karne men ki játi hai. (Dekho Pamphlet No. 3, Safha 16).

(b) Haftawár safái.

Gun ke tamám hisse aur purze pure taur par kholkar sáf kie jáen aur muláhaze ke lie sukhákar rakhe jáen. Agar bore men zang lag gaya ho to us men se pahle falálain guzárkar aur phir us men se khaulta hua páni dálkar double pull-through se sáf karna cháhie.

Muláhaza ho lene par gun ko gun chest men rakhne se pahle tel dena cháhie.

Spare parts aur gun ke sáth ke sámán ka muláhaza karke un ki ginti ki jáe.

ATHWAN SABAQ.—MULAHAZA, Test AUR DURUSTIAN.

Zaruri sámán.—Gun, tripod, tamám spare parts, fáltu barrel, Service Lock, Skeleton Lock, Naqshe, Belt box, Belt aur dummy roundon samet.

- 1. Muzzle attachment.—Us men fouling na laga ho, dánte na par gae hon, disc sáf suthra ho, split pin aur chain donon achchhi hálat men hon.
- 2. Muzzle cup.—Bilkul sáf suthra ho, us ki churián na to tuti hon na bahut ziáda ghisi hon.
- 3. Steam tube Keeper screw durust jagah par laga ho, aur sliding valve kám karta ho (yih dekhne ke lie, gun ko tripod par se utárkar us ke sir ko kai bár, upar niche karo. Agar valve ke áge pichhe khisakne ki áwáz sunái de to samajh lo kih valve kám karta hai).
- 4. Fore-sight. —Blade achchhi hálat men ho aur apni jagah par mazbuti se jama ho.
 - 5. Front cover catch. Durusti se kám de raha ho.
- 6. Fuzeespring aur fuzee.—Spring ke claw, fuzee aur chain achchhi hálat men hon.

Vice pin terha merha na ho.

Fuzee spring ko wazan karke durust karne ki bábat hidáyaten.

Gun men se lock nikálkar spring balance ki rassi crank handle ke knob par charháo. Ab kalái ko breech casing par tikákar spring balance ko sidha upar ki taraf khencho. Jab crank handle hilne lage us waqt jo hindasa parha jáe wuhi fuzee spring ka wazan (khicháo ka zor) hai. Yih wazan 7 aur 9 pound ke darmiyán hona cháhie. Agar spring ka wazan is se kam ya ziáda ho to vice pin ke zarie use thik karo. Am taur par jab pin chhe dafa chat chat kare (yane jab tin chakkar die jáen) to spring ke wazan men ek pound ka farq par játa hai. Pin ko upar ki taraf ghumáne se wazan ghatta hai aur niche ki taraf ghumáne se wazan ghatta hai aur niche ki taraf ghumáne se barhta hai. Fuzee spring ka wazan hamesha ziáda se ziáda rakhna cháhie lekin is had tak kih fire ki ám raftár (ek minute men koi 500 round) qáim rahe.

- 7. Tangent sight.—Aperture achchhi hálat men ho. Upar aur niche ké pech mazbuti se kase hon. Slide ásáni se khiskáya ja sake lekin jab laga dia jáe to apni jagah se sarak na sake.
- 8. Rear cover lock.—Jab apni jagah par baitha hua ho to us ka catch ap se ap band hota ho. Cover lock ka screwed axis pin pure taur par kasa hua ho.
- 9. Safety catch.—Spring ap se ap kam karta ho.
 - 10. Firing lever—(a) Thumb-piece us waqt tak andar ko dabáya na ja sake jab tak safety catch utháya na jáe.

(b) Safety catch ke utháe jáne aur thumb-piece ke dabáe jáne par lock fire hota ho.

- 11. Trigger bar aur us ka spring.—Trigger bar par dánte na par gae hon aur khurdarápan na ho. Trigger bar ko us ka spring tezi se áge ki taraf dhakelta ho.
- 12. Recoil hone wále purze.—Fuzes spring alag karke recoil hone wále purzon ko áge pichhe chaláo. Unhen ázádi se chalna cháhie.

Recoil hone wále hisson ko wazan karne ke lie hidáyaten.

Fuzee spring kholkar alag kar lo aur crank handle qarib qarib sidha khara karo. Phir spring balance ke phande ko crank shaft ke dahne tanaf ke sire par

charhákar áhista áhista pichhe ko khencho. Junhi recoil hone wále hisse chalne lagen spring balance par jo wazan záhir ho use parh lo. Wazan 4 pound se ziáda nahin hona cháhie.

Agar wazan 4 pound se ziáda ho to samajh lo kih ziáda packing hai. Yih kharábi ek had tak is tarah dur ki ja sakti hai kih canellure aur zland men jo packing laga hua hai use tel dia jáe aur recoil hone wále hisson ko chatak se áge pichhe chala dia jáe. Ab phir se wazan karo aur agar zarurat ho to upar batái hui kárrawái duhráo. Agar is kárrawái se bhi wazan zarurat ke mutábiq kam na ho to achchhi tarah dekho kih kahin gun ke breech casing ya side plateon ko nuqsán to nahin pahuncha hai.

- 13. Connecting rod.—Adjusting nut kasa hua ho.
- 14. Lock.—Lock ko ázmákar dekhne ki bábat hidáyaten.
 - (1) Side lever aur extractor lever.—Feed-block ko nikálo aur front cover ko utháe rakho. Phir crank handle ko pichhe ki taraf khenchkar áhista áhista áge ko chalne do yahán tak kih check lever se ja lage. Agar durust ho to extractor ab sab se unchi jagah par hoga. Dekhkar apna itminán kar lo kih side leveron par jo number khuda hua hai wuhi lock casing par bhi hai.
 - (2) Sear aur firing pin ke bent.—Feed-block nikalo aur crank handle ko khenchkar roller par le áo. Phir thumb-piece ko dabáo aur us ko dabáe dabáe crank handle ko áhista áhista áge ko chalne do yáhan tak kih wuh check lever se ja lage. Is se pahle kih sear, firing pin ko chhore, extractor apni sab se unchi position par pahunch chuka ho warna samjho kih durusti se kám nahin karta.
 - (3) Extractor.—Lock nikálkar us ke face ko dekho, kahin us men dánte to nahin par

gae ya aur kisi tarah ki kharábi to nahin hai. Dekhkar apna itminán kar lo kih gib round ko pare rukh pakre hue hai.

- (4) Trigger ki nok aur tumbler ka bent. —Lock ko cock karke sear ko chhor do. Ab firing pin pichhe ko ruka hona cháhie.
- (5) Firing pin.—Dekho kih firing pin ki nok tuti hui to nahin hai. Purzon ko khole bagair firing pin ke tute hone ya na hone ka pata lagáya ja sakta hai. Yih is tarah kih lock spring aisi hálat men chhora jáe jabkih extractor utha hua ho. Agar tuta hua na ho to firing pin is kárrawái se firing pin hole se nikla rahega aur tumbler ke pichhle sire ko uthákar pichhe ko khencha ja sakega. Agar firing pin, firing pin hole se nikla na rahe ya nikla to rahe magar tumbler ke pichhle sire ko utháne se khichkar andar ko chala na jáe to samajh lo kih firing pin ka koi na koi hissa zarur tuta hua hai.

Dekho I.A.O. No. 679 bábat 1931, para 1, 2 aur 3.

Lock spring ko wazan karne ke mutaalliqhidayaten.-

Lock ko pure taur par cock kar lo. Phir lock ki nichli satah ko kisi chapti satah par rakho. Ab spring balance ke phande ko side lever head par dálkar apna báyán háth lock ki uparli satah par rakho. Is ke bád spring balance ke zarie side lever head ko upar ko khencho. Thik us waqt jab tumbler ghumne lage balance ko 12 se 14 pound tak wazan záhir karna cháhie.

NAWAN SABAQ.—MULAHAZA, Test AUR DURUSTIAN (jári).

Zaruri sámán.—Wuhi sámán jo Áthwen Sabaq ke lie batáya gaya hai.

1. Barrel. —Barrel ka muláhaza bari hoshyári se karke dekho kih us men zang to nahin laga; lakiren

ya garhe to nahin pare; pull-through se ghisa to nahin; kahin se phula hua to nahin, aur dháti fouling to nahin laga hua.

Is tariqe par kám karo: -

Gun men se barrel kholkar alag kar lo. Phir barrel ko áhista áhista ghumáte hue bore men nazar dálo. Yih kám pahle ánkh breech ke garib lákar phir breech se do chár inch hatákar karo. Lead ko achchhi tarah dekho, kahin wuh gair-mamuli taur par zang kháya hua to nahin hai. Ab barrel ko palatkar usi tarah bari hoshyári ke sáth muzzle ki taraf se muláhaza karna cháhie. Baz dafa gun ka nishána sirf is wajah se kharáb hota hai kih us ke bore men dháti fouling laga hota hai.

Naya packing lagáne ki bábat hidáyaten.

(1) Barrel ke breech wale sire par naya packing lagana.

Agar gun ke breech wále sire par barrel casing men se páni tapakta ya rista ho to barrel casing men se páni nikál lo aur recoil hone wále hisson ko báhar khench lo. Phir barrel ke cannelure par asbestos ka dhága lapeto aur use lakri ke ek patle tukre ya pechkash ya cháqu ki nok se cannelure men dabáte jáo, yahán tak kih cannelure bhar jáe. phir asbestos ko dabákar barrel ki satah ke barábar kar do aur us men tel dekar purzon ko dobára jor do.

(2) Barrel ke muzzle wále sire ka packing badalne ki bábat hidáyaten.

Agar gun ke muzzle wále sire ki taraf se páni tapakta ho to gun ko rear cross-piece ke bal khara karo. Phir muzzle attachment utár do aur gland ke pech khol do. Ab gland men dobára packing lagáo aur agar zarurat ho to asbestos badal do; asbestos ko tel dekar barrel par dhila lapette jáo aur lapette waqt use Number 3 punch, lakri

men andar ko dabáte jáo, yahán tak kih gland bhar jáe. Phir gland ka pech háth se jitna kas sako, kas do. Gun ko pare rukh rakhkar fuzee aur fuzee spring ko nikálo, lock ko hang karo aur recoil hone wále hisson ko áge pichhe chalákar apna itmirán kar lo kih wuh ázádi se harakat kar sakte hain. Agar yih malum ho kih barrel par packing ka dabáo ziáda hai to gland utárkar asbestos ke ek do dháge nikál lo. Sab se ákhir men combination tool se kám lekar gland ko barrel casing men khub achchhi tarah kas do.

Packing ko ázmákar dekhna.—Barrel casing men itna páni bhar do kih barrel us men dub jáe. Phir recoil hone wále hisson ko áge pichhe chalákar dekho. Páni zara bhi tapakna nahin cháhie. Ab recoil hone wále hisson ko ázmákar dekho kih wazan durust hai ya nahin.

- 2. Feed-block. Slide ázádi se kám karta ho; pawl aur spring achchhi hálat men hon. Top lever aur bottom lever jor par se kaskar lage hon.
- 3. Sliding shutter.—Catch aur spring áp se áp kám karte hon. Sliding shutter ázádi se kám karta ho. Agar sliding shutter atak atak-kar chalta ho to dekhkar apna itminán kar lo kih:—
 - (a) Us men mail ya kirkiri to nahin lagi.
 - (b) Nichla plate pichka hua to nahin. Yih kharábi connecting rod ke us waqt giráe jáne se paida ho játi hai jabkih gun men lock na ho.
- 4. Axis aur dusre pin. Dekh lo kih sabpin durusti se lage hon.
- 5. Tripod —Tripod ke bahut se hisse aise hote hain jo ghiste ghiste zara hilne lagte hain. Go koi ek hissa ziáda na hilta ho, lekin phir bhi kai ek hisson ke

ikatthe hilne se gun ke nisháne ki durusti men káfi farq par sakta hai.

Upar niche ko hilna.—Yih kharábi ám taur par elevating gear men hoti hai. Is ka iláj is tarah kia ja sakta hai kih jamming bolt dhila karke tumbler nut ko aur kas dia jáe aur jamming bolt debára kaskar laga dia jáe.

Dahne báen ko hilna.—Ám taur par yih nuqs cross head ke munh ke phail jáne se par játa hai.

Yih bhi dekhna cháhie-

- 1. Clutch platon men kirkiri ya ret nahin lagi hui hai.
- 2. Jamming handle terhe merhe to nahin hain.
- 3. Zanjiren thik thik lagi hui hain.
- 4. Feather aur joint pin men koi nuqs to nahin.
- 5. Leg jointon ka muláhaza karo.
- 6. Belt aur belt box.

Belt.—Yih mail se pák sáf hon; pital ki pattián achchhi hálat men hon; belt ki niwár kahin se phati ya ghisi na ho.

Belt box.—Yih mail se pák sáf hon aur inhen kisi tarah ka nuqsán na pahuncha ho.

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DASWAN SABAO.—Fire KARNE KE LIE Gun AUR Tripod KO TAIYAR KARNA.

Zaruri sámán.—Wuhi sámán jo Sátwen Sabaq ke lie batáya gaya hai.

- 1. Gun ke hisse aur purze khol do.
- 2. Tamám hisson aur purzon ka muláhaza karke unhen sáf karo.
 - 3. Barrel ki báhar wáli satah par tel lagáo.

- 4. In hisson aur purzon par fel lagáo:
 - (a) Recoil hone wále hisse. Extractor ke face par lagáo magar muzzle cup par na lagáo.
 - (b) Ramp.
 - (c) Trigger bar.
- 5. Gun ke hisson aur purzon ko dobára jor do.
- 6. Barrel ki andar wáli satah, muzzle cup aur muzzle attachment ko khushk kar lo.
- 7. Apna itminán kar lo kih muzzle cup mazbuti se kaskar laga hua hai.
- 8. Gun ko level karo. Phir breech wále sire par barrel casing men jo pechdár plug laga hua hai use alag karke cork plug nikálo aur barrel casing men páni bhar do.
 - 9. In hisson aur purzon ka wazan karke dekho:-
 - (a) Fuzee spring.
 - (b) Recoil hone wale hisse.
 - (c) Lock spring.
- 10. Dekhkar apna itminán karo kih traversing handle men aur spare parts case men rakhe hue can men tel bhara hua hai.
- 11. Spare parts case aur box men jo purze rakhe rahte hain un ki partál karo.
 - 12. Dekhkar apna itminán kar lo kih:-
 - (a) Condenser tube ko koi nuqsán nahin pahuncha hai.
 - (b) Gun men condenser tube thik taur par jura hua hai.
 - 13. Condenser páni se do tihái bhara hua ho.
- 14. Fáltu barrel men packing thik taur par laga hua ho aur fire karne ke lie taiyár ho. Cleaning rod; gun chest men ya carrier par rakha hua ho.
 - 15. Tripod ka muláhaza karo.
 - 16. Ammunition sukha aur sáf ho.

- 17. Belton ka muláhaza karke apna itminán kar
 - (a) Achchhi hálat men hain.
 - (b) Un men round durust tariqe par bhare hue hain.
 - 18. Belt boxon ka muláhaza karo.

Sardi ke mausim ki kárrawái.

Koshish karo kih recoil hone wále hisson men ragar ane un ke recoil hone men rukáwat jahán tak ho sake am ho yane do aur tin pound ke darmiyán ho aur huru shuru men fuzee spring ka wazan sát pound se iáda na rakho. Lock men se pahle ka sára tel sáf kar o, aur extractor ke face aur slide aur extractor ke leveron ko bhi tel se pák sáf rakho. Barrel casing par ghás, bori ya kambal lapet do. Recoil hone wále hisson ko kabhi kabhi háth se chala dia karo.

Namuna dikhákar batáo kih gun aur fáltu barrel ko gun chest men kis tarah band kia játa hai.

Retile mulkon men zaruri kárrawái.

Khayál rakho kih sirf thora sa tel istemál kia jáe.

Kám karne wále purzon aur hisson par tel se nam kia hua kapra pher do. Is se rát ke waqt zang bhi lagne nahin páta aur purze bhi itne káfi chikne rahte hain kih fire karne men apna kám kar saken.

GYARAHWAN SABAQ.—Fire KARTE WAQT KHAYAL RAKHNE KI ZARURI BATEN.

- 1. Barrel casing ke páni par nazar rakho.—(Jab páni ek dafa khaulne lagta hai to jab tak khaulta rahta hai us waqt tak us ka páni do do belt pichhe koi derh derh pint ke hisáb se kam hota játa hai.)
 - 2. Yih dekho kih belt:-
 - (a) Har waqt feed-block ki thik sidh men rahe.
 - (b) Be-rukáwat ázádi se chal sake.

3. Aisa bandobast karo kih tamám marammat zarurat parte hi ki jáe.

Lock ki marammat.—Jab lock ka koi purza badalna ho to zaruri hai kih sáre purze báqáida durust tartib se khole jáen, yahán tak kih us purze ki bári áe jise badalna ho.

Hán agar aisi surat men tuta hua lock spring badalna ho jabkih us ke tukre alág hokar gir gae hon to naya lock spring, purzon ko khole bagair jora ja sakta hai.

4. Aise mauqe ki kárrawái jab kih kuchh der ke lie fire band kar dia gaya ho.

(a) In hisson men tel do:

Barrel ke ragar kháne wále hisson men.

Recoil hone wále hisson men (siwáe muzzle cup ke).

Extractor aur lock ke faceon men.

Rampon men.

Trigger bar men.

- (b) Dekhkar apna itminán kar lo kih front cone, muzzle cup aur jamming handle pure taur par kaskar lage hue hain aur condenser tube ka sira condenser men páni ki satah ke niche hai.
 - 5. Gas se bacháo ki tadbiren.

Dekho Pamphlet No. 3, Chauthá Sabaq.

BARAHWAN SABAQ.—Fire KARNE KE BAD
KI KARRAWAI.

(a) Chándmári par.—

(1) Unload karke lock, muzzle attachment aur muzzle cup kholkar alag kar lo.

(2) Barrel men se beruni mail, cleaning rod aur tel men tar ki hui falálain ki chindi istemál karke sáf karo. Phir barrel ko falálain ki sukhi chindi se sukha lo.

(3) Cleaning rod se kám lekar barrel men dobára tel lagáo.

(4) Muzzle cup, muzzle attachment aur lock men tel do.

(5) Gun ke hisson aur purzon ko dobára jor do.

(6) Khokhon men se jangi round chhánt lo.

(b) Line men wápas áne par karne ke kám.

- (1) Gun ke hisson aur purzon ko kholkar sab ko achehhi tarah sáf kar lo.
- (2) Fuzee spring ka wazan kam kar do.
- (3) Barrel men se khaulta páni guzáro aur is ke bád agar zarurat samjho to double pullthrough se kám lo.
- (4) Is matlab ke lie kih barrel ki báhar wáli satah par jo bháp pasijkar lag gai ho us se zang na lagne páe, barrel casing men se sára páni nikál lo aur pechdár plug aur cork plug donon kholkar alag kar lo tákih casing ke andar báhar ki hawa áti jáe. Agar yih khayál ho kih gun kuchh dinon tak rakhi rahegi to cannelure aur gland donon men se asbestos ka packing kholkar alag kar lo.
- (5) Tripod belton, belt boxon, spare parts case ke purzon aur ammunition ka achchhi tarah muláhaza karke unhen sáf kar lo.

Belt.—Jo belt bhige hue hon unhen sukha lo.
Agar koi belt maila ya chikta ho to use is tarah saf

Pahle kuchh páni men soda aur soft soap (charbi jaisa narm sábun) is hisáb se ghol do:
Páni ke das hisse, soft soap ke tin hisse, soda ka ek hissa. Phir belt ko is soda aur soft soap mile hue páni men do ghante tak duboe rakho. Is ke bád belt ko brush márkar sáf karo. Jab sukh chuke to us ke kártus wále khánon men belt plug laga

do. Belt plug lagáte waqt bari hoshyár se kám lena cháhie, nahin to belt k kháne barh jáenge aur round un mendhile dhile rahenge.

Belt box.—Sára mail mitti wagaira sáf kar do, phi box ko báhar se ek tel lage hue kapre se ponchh dálo.

SECTION 4.—GUN KE HISSE AUR PURZE KHOLNA.

Instructor ke lie note.

Zaruri sámán.— Gun, tripod, spare parts case aur box.

- (i) Niche di hui "Khayál rakhne ki báten" khás taur par zor dekar samjháo.
 - (ii) Athárahwán Sabaq us waqt tak shuru na karáya jáe, jab tak jawán Terahwen se Satrahwen Sabaq tak ke tamám kámon men pakke na ho jáen.

TERAHWAN SABAQ.—KHAYAL RAKHNE KI BATEN.

- 1. Durust auzáron se kám lo, masalan aise pechkash istemál karo jo pechon ki mutái ke liház se durust hon, punch bhi munásib mutái ke istemál karo, wagaira wagaira. Agar is qáide par amal na kia gaya to pechon ke sire kharáb ho jáenge aur phir sirf mistri hi unhen nikál sakega.
- 2. Churidár axis pin ko khenchkar nikálne se pahle dekh lo kih churián pure taur par khul to gai hain.
- 3. Jis waqt churidár axis pin phir lagáo zor se kám na lo, kionkih churián ziáda zor lagáe bagair ásáni se baith játi hain. Agar is bát ka khayál na rakha

gaya to churián jo kih niháyat patli aur mahin hoti hain is tarah katkar bigar jáengi kih pin dobára lagána námumkin ho jáega, masalan aise mauqe par jabkih cover lock ka pech ya churidár axis pin lagáya jáe.

- 4. Jab rear cover uthána ho to upar ko uchhálkar nahin balkih narm háth se utháo. Upar ko uchhálkar utháne se mumkin hai qabzon par zor pare aur wuh terhe merhe ho jáen. Is se pahle kih cover ko utáro apna itminán kar lo kih lock durusti se gun men laga hua hai. Cover ko utháte waqt crank handle ko check lever par se zara sa uthána cháhie.
- 5. Front cover band karne se pahle dekh lo kih feed-block durust jagah par aur front cover catch utha hua ho.
- 6. Kisi surat men bhi firing pin ko us waqt na chhurána cháhie jab tak extractor upar wále stop se laga hua na ho.
- 7. Jab koi aisa purza kholkar alag karna ho jo zanjir ke zarie laga rahta hai (masalan outer casing split pin, cork plug, screwed plug ya tripod pin) to zanjir ko zor se na khenchna cháhie, kionkih is se zanjir tut játi hai aur purza alag hokar ákhir men gum ho játa hai.
- 8. Machine gun aisi chiz hai kih agar munásib ihtiyát barti jáe to us ke purze bahut kam tutte hain aur us men nuqs bhi bahut kam parte hain. Jab koi purza tutta hai ya nuqs par játa hai to sirf is wajah se kih munásib ihtiyát barti nahin gai.
- 9. Gun ke kisi hisse par hathauri ya mogri ki chot hargiz na parne páe. Jab kisi hisse ko hathauri ya mogri se thonkna ho to us hisse par lakri ki koi chiz rakhkar thonka jáe.
- 10. Jab kabhi gun ke hisse aur purze kholne men jawánon ka imtihán lia jáe to waqt ki koi qaid na lagái jáe, kionkih agar kholne ka kám jaldi jaldi aur be-ihtiyáti ke sáth kia gaya to gun ko nuqsán pahunchne ka andesha hoga.

Extractor levers, ke nám us tartib menjis tartib se jore játe hain, báen se dahne ko parho. Lock spring Firing pin. Extractor. Keeper pin. Bush axis Pin axis Trigger ck ke hisson aur purzon ke nám us Trigger. Bush axis. Pins axis tumbler. morning and notal design 0 Jo kuchh punda his Tumble. diamed our side plate berg Marki ranko kih sudan presen uper his ko rahe c The second the last part and the second construction in the state of th -cirrac propulated with the largest his area The of the the tell had to be the fitte the tell

COMPONENT PARTS OF EXTRACTOR

Gib spring Gib spring cover. TASWIR 2.

F. 3

CHAUDAHWAN SABAQ.—Gun KE HISSE AUR PURZE NICHE BATAI HUI TARTIB SE KHOLE JATE HAIN.

- 1. Lock.—Unload karo aur crank handle ko khenchkar roller par láo. Phir rear cover ko upar utháo aur dekhkar apna itminán kar lo kih extractor gira hai. Ab extractor aur stop ke darmiyán ungli rakhkar lock ko utha do aur sáth hi crank handle ko áhista áhista áge ko chalne do yahán tak kih side plate se lock nikal jáe. Ab lock ko zara sa chakkar dekar nikál lo.
- 2. Muzzle attachment.—Split pin ko báhar nikálo aur outer casing ko ghumákar alag kar lo. Ab muzzle cup ko pech kholkar alag karo.
- 3. Feed-block. -Front cover uthákar feed-block ko báhar nikálo.
- 4. Fuzee spring box.—Dahna háth box ke pichhe aur báyán háth áge rakhkar box ko dabáte dabáte áge ko sarkáo yahán tak kih studon se alag ho jáe. Jab alag ho chuke to utár lo. Fuzee chain ko spring se alag karo aur box aur spring donon utár lo.
- 5. Fuzee.—Fuzee ko pichhe ki taraf ghumáte jáo, yahán tak kih stem ke lug aisi jagah a jáen kih fuzee ásáni se khenchkar nikála ja sake.
- 6. Recoil hone wále hisse.—Rear cover ko upar utháo, phir T fixing pin ko kholkar rear cross-piece ko niche ki taraf kar do. Ab right slide aur left slide ko nikálkar barrel ko side plateon samet khench nikálo. Is ke bád side plateon ko barrel se alag kar do. (Báyán side plate pahle alag karo.)

Gun ke hisson aur purzon ko jorna.

- 1. Jo kuchh gun ke hisson aur purzon ko kholne ke lie batáya gaya hai, ulti tartib se usi ka ulat karo.
- 2. Barrel aur side plate jorte waqt is bát ka bara khayál rakho kih radial groove upar hi ko rahe aur zor na lagáya jáe. Agar side plate, barrel trunnionon aur crank shaft par thik na baithen to barrel ko pichhe

ko khench lo aur side plateon ko thik se jor do nahin to bahut mumkin hai kih crank shaft men dánte par jáen.

PANDRAHWAN SABAQ.—Taswir 2.

Lock ke purzon ko kholna.—Dekhkar apna itminán kar lo kih lock cock kia hua hai. Phir side lever ka split pin aur axis bush dabákar nikál lo. Side leveron, extractor leveron aur extractor ko nikálo. Tumbler axis pin ko dabákar pin aur tumbler nikál lo. Ab lock spring ko ázád karke trigger axis pin ko báhar dhakelo. Is ke bád trigger, lock spring, firing pin aur sear samet spring ko nikál lo.

Extractor ke purzon ko kholna.—Gib spring cover ko dabákar nikálo aur spring aur gib nikál lo.

Lock ke purzon ko jorna.-

Jo kuchh upar *lock* ke purzon ko kholne ke báre men batáya gaya hai ulti tartib se usi ka ulat karo, siwáe is ke kih:—

- (a) Trigger se pahle tumbler ko joro.
- (b) Lock spring tab hi lagáya jáega jab kih báqi purze lagáe ja chuke hon. Lagáte waqt apna itminán kar lo kih lock ke sab purze fired position men hain aur lock spring ka lamba bázu extractor ki taraf hai.

Solahwan Sabaq.—Feed Block ke Purzon ko Kholna.
—(Sikhne wále jawánon ke lie sirf D. P. feedblock istemál kia jáe.)

ar your La muzzle ujehe de denlandor los la

(D.P. feed-block sirf sikhlái ke kámon men istemál kia jáe).

Split pin ko dabákar nikálo. Top lever aur bottom lever ko alag alag karo. Slide nikál lo aur spring samet

pawlon ko alag kar lo. Phir bottom pawl ke axis pin ko khenchkar nikálo aur spring ko pawlon samet nikál lo.

Feed-block ke purzon ko jorna.—Upar batái hui kárrawái ka ulat ulti tartib se karo.

Sliding shutter ko kholkar alag karna.—Catch ko dabáo aur shutter ko áge ki taraf itna dhakelkar le jáo kih stop se ja lage. Phir Number 3 punch se plunger ko andar ki taraf dabáo aur shutter ko áge ki taraf dabá-kar le jáo, yahán tak kih wuh breech casing se nikal áe.

ABSTRACT OF THE WAR DESIGNATION OF THE CONTRACT OF

SATRAHWAN SABAQ.—PANI NIKALE BAGAIR Barrel BADALNA.

of thatin or ourself

Yih faisala karne ke lie kih barrel casing men páni rahne dia jáe ya nahin, mauqe ki hálaton ko dekhna cháhie. Garm mulkon men páni ki ek ek bund qimati hoti hai. Larái ke maidán men mumkin hai kih páni mil hi na sake ya mile bhi to waqt par na mile. Aise mauqon par páni ka sanbhálkar rakhna achchha hai; magar line wagaira men jahán páni ásáni se mil sakta hai, gun ke purzon ko kholte waqt barrel casing ke páni ko bacha rakhna fuzul hai.

Purzon ko ám tartib se kholte jáo yahán tak kih slide alag kie ja chuken. Phir elevating joint pin nikálkar gun ka muzzle niche ko jhuka do. Is bát ka bara khayál rakho kih direction dial ko chot na lagne páe.

Direction dial ko chot se bacháne ke lie us par ek gaddi rakh leni cháhie.

Ab Number 2 ko hukm do kih ek chindi ya kapre ki gaddi muzzle ke munh par rakhe aur jab recoil hone wále hisse pichhe khenche ja rahe hon to is chindi ya gaddi ko barrel par dabáe rahe yahán tak kih chindi ya gaddi muzzle ke sáth sáth barrel casing ke agle

surákh tak pahunchkar use band kar de. Ab recoil hone wále hisson ko nikál lo.

Naya barrel lagáte waqt, jo kuchh upar batáya gaya hai, us ka ulat ulti tartib se karo.

Páni yun bhi bacháya ja sakta hai kih use barrel casing men se kisi bartan men dál dia jáe aur phir barrel ko ám tariqe par badal dia jáe..

ATHARAHWAN SABAQ.—CHHOTE FURZON KO KHOLNA.

- 1. Front cone muzzle attachment —Combination tool se kam lete hue front cone ko outer casing muzzle attachment men se pech kholkar alag kar lo.
- 2. Muzzle attachment ka gland.—Combination tool se kám lete hue packing gland ko barrel casing men se pech kholkar alag kar lo. Jorte waqt dekhkar apna itminán kar lo kih gland pure taur par kaskar baitha hai.
- 3. Front cover catch.—Spring aur plunger alag karne ke lie plug ko andar ki taraf dabákar ek pechkash ke zarie 4 chakkar do. Is se spring ke dabáo se plug nikal parega.

Is se pahle kih plunger nikála jáe, use itna ghumána zaruri hai kih slide un lugon ko bachákar nikal saken jo catch par bane hote hain.

- 4. Tangent sight.—Axis pin ko pech kholkar alag kar lo. Phir tangent sight piston aur spring alag kar lo.
- 5. Rear cover lock.—Axis pin ko pech kholkar alag kar lo. Phir rear cover lock aur spring alag kar lo.
- 6. Trigger bar.—Rear cover lock aur trigger bar spring alag karke trigger bar khench nikálo.
- 7. Roller Split fixing pin, collar aur roller kholkar alag kar lo.

SECTION 5.—SPARE PARTS (FALTU PURZE)— HIDAYATEN.

Instructor ke lie note.

Zaruri sámán.— Gun, tripod, spare parts case aur spare parts box.

1. Achchhi tarah zor dekar samjháo kih tamám machine gunneron ko jánna cháhie kih gun ke sáth kaun kaunse fáltu purze le jáne cháhien aur kaun kaunse nahin. Un ko yih bhi jánna cháhie kih kaunsa fáltu purza kahán rakha hai, tákih waqt par dhundna na pare. Har ek fáltu purze ko us ke asli nám se pukárna zaruri hai. Har ek box men jo jo chizen kam hon unki ek fihrist rakhni cháhie. Zor de dekar jawánon ko yih bhi batáo kih jab kabhi mauqa mile fáltu purzon ki partál karni zaruri hai. Jo chizen tut phut ya kho kha gai hon un ki report fauran hi karni cháhie. Fáltu purzon par zara sa tel lagáe rakhna zaruri hai.

Sikhlái is tartib se di jáe.

Pahle spare parts box, spare parts case, aur wallet ke tamám purze nikálkar bichha do, phir jawánon ko is tariqe par sikhlái do:—

Spare parts ki sarkári fihrist ke mutábiq durust tartib se har ek chiz uthákar dikháo aur us ka durust nám batáo. Jo purza jo kám deta ho bayán karo.

UNNISWAN SABAQ.

Spare parts box, spare parts case aur wallet ka bayán karo. Phir har ek purza dikhákar us ka nám batáo aur sáth hi yih bhi batáo kih kaunsa purza kya kám kis tarah deta hai.

BISWAN SABAQ.

G. C. Trisuer bas - Mean rover look with a trigger

Purzon ko spare parts box aur wallet wagaira men rakhne ka tariqa sikháo.

Wuh auzar aur purze jo wallet men rakhe rahte hain. Lug. clearing ... Cork ... Toring, passes ... Cup, muzzle ... Disc, muzzle attachment ... 1 Fuzee, chain samet ... Gib Pins, trigger Pins, tumbler ... Pins, firing Pins, split, keeper $\frac{1}{8} \times 2\frac{1}{2}$ inch (Mk. IV tripod mounting ke lie) ... 3 Pliers, cutting, pairs 1 Protector, muzzle Pull-through, double ... 1 Punches, No. 3 ... 1 Punches, No. 5. Luzee, chain semet Reflector, mirror Screw drivers, small Lange packing remaind the Language of the Lang Sear, spring samet Spring, gib Trigger ... 1 Tumbler ... 1 Washers, adjusting, No. 1. .003 ... 3 Washers, adjusting, No. 2. :005 ... 3 Wuh auzár aur purze wagaira jo spare parts case men rakhe rahte hain. Balance, spring Can, oil Falálain lutin padon ko bándhne ke lie, gaz ... 8 Fine, split, check rest, long Lock

	Pine enlit muzzle attachment 1
Lutin, ozs 6	Fins, spire, neuzzee acoustineer
Plug, clearing 1	Pins, I justy rear crossfice
Spring, fuzee 1	rings, oetc
Tool, combination 1	Plugs, cork, complete
Wallet 1	Plugs, screwed
	Plugs, front cover catch 2
Wuh auzár, purze wagaira jo spare parts	Plungers, front cover catch 2
box men rakhe rahte hain.	Roller 1
Blocks, feed 2	Screws, clamp, checking traverse 1
Boxes, tin, chhote chhote purzon ke lie 3	Screw drivers, large 1
	Sights, night, back and fore, each !
	Sights, fore 1
	Slights, tangent 1
Cork 1	Spanner, shifting 1
Cups, muzzle attachment 1	Springs, bottom pawl 1
Disc, muzzle attachment 4	Springs, cover lock 2
Eyelets, long, ozs $\frac{1}{2}$	Springs, front cover catch 3
Fuzee, chain samet 1	
Gib 1	Springs, gib 4 Springs, lock 4
Gland, packing 1	Springs, safety catch piston samet 2
Hammer 1	Springs, sayong saren pro
Lever, extractor, left 1	Springe, each
Lever, extractor, right 1	Spiritys, situation carried and an entered the state of t
Packing, asbestos (pánch pánch gaz ke tukre) 4	
Pins, trigger 1	
Pins, tumbler 1	P. C. S.
Pins, firing 2	Strips, long 25
Pins, fixing crank handle 1	Strips, short 25
D: 1: 77 9	Tool, repairing belts 1
	Wire gauze (tukre) 4
Pins, split, keeper, $\frac{1}{8} \times 2\frac{1}{2}$ inch (Mk. IV tripod mounting ke lie) 6	Washers, packing nut elevating (tripod Mk. V) 6
Pins, split, bush, axis, side lever 1	NoteUpar purzon wagaira ki jo fihrist di hui hai, wuh "303-inch Vickers Machine Gun Handbook,
Pins, split, check nut, long 3	hai, wuh "303-inch Vickers Machine Gun Handook,

1930" se naql ki gai hai; lekin "Equipment Regulations, India" ke mutábiq kárrawái karte waqt purzon wagaira ki fihriston men niche batái hui tabdili ki jati han: -

Wallet men rakhe rahne wále purze wagaira.

Fihrist men yih barháo:

Pull-throughs, gauze A, tukre. ... 2

Spare parts boxmen rakhe rahne wale purze wagaira.

Fihrist men yih barháo:—

Pins, split, spare, 1/16" × 1" ... 3

Yih tabdili karo:-

Screws, clamp, checking traverse (1 ke bajáe) har 6 box pichhe ... 3

Yih kát do:-

Pins, split, check nut, long ... 3

SECTION 6.—ROKEN AUR FAURI ILAJ.

Instructor ke lie note.

Is matlab ke lie kih rokon ka ilaj karne men jawán khub hoshyár ho jáen, zaruri hai kih instructor jo roken dále durust tariqe par dále tákih No. 1 durust fauri iláj kar sake.

Roken dálne ki sikhlái sirf uhdadáron ko di jáe.

Niche die hue nagshon men reken dalne ke tariqe aur munásib fauri iláj wagaina batáe gae hain. Naqshon ke mukhtalif khánon men die hue kám in machine gunneron ko sikháe jáen:—

(a) Pahle, tisre aur chauthe kháne men die hue kam ... Tamam machine gunner-Acod small many small services on ko.

(b) Chauthe aur panchwen kháne men die hue kám

In ki sikhlái machine gunner ko us waqt di jáe jab wuh fauri iláj karne men pakka ho

(c) Pahle, dusre, tisre, chauthe aur panchwen kháne men

die hue kám ... Tamám instructoron ko.

ve tongent right uther live

Zaruri sámán.

Gun aur tripod.

Belt aur dummy round.

Chapta kártus.

Tute hue kártus ka agla hissa aur aisa tuta hua kártus jis ka ek hissa dusre par charh gaya ho. short age third is identification

Spare parts case.

Crank handle dhanpne ke lie kapra.

Shist lene ka nishán.

Fauri iláj karne ka tariqa sikháne ki yih tartib honi cháhie: -

- 1. Rok dálna.
- 2. Namuna dikháte hue bayán karna.
- 3. Jawánon se sawál karna.
- 4. Jawánon se mashq karána.
- 1. Jawán gun ke dahni taraf aisi jagah baithe hon jahán se crank handle dikhái deta ho aur instructor jo kám kare wuh sáf nazar áe.
- 2. Sabaq shuru karne par target ke taur par ek nishán hamesha muqarrar kia jáe.
- 3. Jis waqt instructor rok dál raha ho, No. 1 aur No. 2 sir kisi aur taraf ko more hue gun par "rest" ki

position ikhtiyár kie hue hon. Instructor pahle to "position" phir "fire" ka hukm de, phir crank handle par se kapra hatáe. Is ke bád No. 1 aur No. 2 fauri iláj ki kárrawái karen.

- 4. Rok thik usi tarah dáli jáe jis tarah bayán kia gaya hai.
- 5. Fauri iláj ki kárrawái us waqt tak puri na samjhi jáe jab tak durusti ke sáth dobára shist lekar fire na kia ja chuke.
- 6. Rear cover aisi hálat men kabhi na khola jáe jab kih lock pure taur par apni jagah par baitha ho ya tangent sight utha hua ho.
- 7. Jis surat men *lock*, khenchne se pichhe ko na khich sake, *front cover* kholkar *extractor* ko dabákar niche kar do.
- 8. Zaruri hai kih jab front cover ya rear cover utárkar band kia jáe to pure taur par durusti ke sáth band kia jáe.
- 9. Lock kabhi aisi hálat men badla na jáe jab extractor ke face par round lage hue hon.
- 10. Baz dafa gun men lock na laga hone ki hálat men lock spring ko chhurána parta hai. Aise mauqe par extractor ko is tarah khari position men rakho kih firing pin ke sámne, firing pin hole ho, phir is ke bád lock ka spring chhura do.
- 11. Jis surat men No. 2 bhi fauri iláj ki kárrawái men madad kare, use us ke kám sab se pahle sikháe jáen.
- 12. Jab jawán yih kám achchhi tarah sikh jáen to andhere men ya No. 1 aur No. 2 ki ánkhon par pattibándhkar sikhlái di jáe.
- 13. Sab se ákhir men jawánon ko No. 2 ki madad ke bagair fauri iláj karne ki mashq karái jáe.

Ikkiswán sabaq.
Báiswán sabaq.
Teiswán sabaq.
Chaubiswán sabaq.
Pachchiswán sabaq.

Pahli position wáli rok.
Dusri position wáli rok.
Tisri position wáli rok.
Chauthi position wáli rok.
Khás khás roken.

Note.—Pachchiswen Sabaq ki sikhlái (khás khás roken dur karne ki sikhlái) us waqt tak na di jáe, jab tak jawán Ikkiswen, Báiswen, Teiswen aur Chaubiswen Sabaq ke kámon men pakke na ho jáen.

Chhabbiswán sabaq. Rok parne ke sabab.

Zaruri sámán.—Wuhi sámán jo fauri iláj ki kárrawái ke lie muqarrar hai. Iske aláwa skeleton lock, fáltu feed-block aur sikhlái dene ke nagshe.

Tartib.

- (a) Rok dálna. Number 1 aur Number 2 fauri iláj ki kárrawái karen.
- (b) Rok dobára dálna.
- (c) Jawánon se sawál karke puchhna kih is rok ka gun ki chál par kya asar kaise para.
- (d) Jawánon se sawál karna.
- (e) Sirf instructoron ke lie:-
 - (i) Sikhlái dene ke lie rok dálna.
 - (ii) Chándmári par fire karte men rok dálna:

Chhabbiswen Sabaq ki sikhlái us waqt di jáe jab jawán Ikkiswen se Pachchiswen Sabaq tak ke tamám kámon men pakke ho jáen.

- 1. Gun ke harakat karne wále hisson aur purzon men kharábi paida hone se jo roken par játi hain, wuh do bari qismon men taqsim ki ja sakti hain, yane:—
- (a) Árizi roken. Yih roken chár sababon se par sakti hain:—
 - (i) Fire shuru karne se pahle ya fire karte waqt jin báton ka khayál rakhna zaruri hota hai un ka khayál na rakhna.
 - (ii) Ammunition men nugs hona.
 - (iii) Gun team ke jawánon ka pure taur par sikha hua na hona.
 - (iv) Gun ke kisi aise purze ka bigar jána, jis ki tabdili ke lie fáltu purza maujud ho.

- (b) Der men durust hone wáli roken. Yih roken gun ke kisi aise hisse ke bigar jáne se parti hain jise gun team, dushman ke fire ke niche rahte hue ya armourer ki madad ke bagair durust nahin kar sakta. Is qism ki roken parne se gun lázimi taur par kam ya ziáda arse ke lie bekár ho játi hai.
- 2. Arizi rokon ke fauri iláj ki kárrawái ka jald ya der men hona is bát par munhasir hota hai kih gun team ke jawánon ne kahán tak kám sikha hai aur kahán tak unhen us ki mashq karái gai hai.

(c) Sirf anstructoron, he lie: - and and

- THE PARTY OF THE PARTY OF THE RESPONSE OF THE PARTY OF

refer to the release real angular diff. solder injuly (19)

The second secon

dropt have one real det Brand all noted all

ahli position wáli rok.

Crank handle ki position	Roken dálne ka tariga.	Fauri iláj	kokon ko dobára parne se rokna.	Rok galiban kis wajah se pari.
Pahli position	Half load karo: Crank	(i) Crank handle k o		Extractor
	handle ko ahista se	ghumakar voller tak		gira nahin
	khenchte jáo, vahán	ki taraf khencho aur		Jis ka sabab vih hosakta
	tak kih extractor ke	crank handle ko chhor		hai:-
	sing camon ke stepon	do.		(i) Kam bá-
	men a jaen; phir			rud.
~	crank handle ko chhor	(ii) Agar is par bhi yihi	(ii) Fire karne	(ii) (a) Fuzee
	do aur belt ko left	rok dobára par jáe	se pahle aur	spring ke
-	front ki taraf khen-	to (i) men batái hui	fre karte waqt	wazan ka
(cho.	karrawai phir karo		ziada hona.
(:)	Note: - Siwae us halat	aur fuzee spring ko		(b: Chalne
としく	ke jab kih kamzor	itna halka kar do	zaruri hota hai	walepurzon
3	barud ke sabab se	kih "khit" ki awaz	un ka khayá!	men tel na
ノ	rok par gai ho har	tin dafa áe.	rakho,	hona.
	hálat men sikhlái ke			(c) Chalne
	lie rok dálkar taiyári	(iii) Agar (i) men batår		wale purzon
	ki karrawai duhrani	hui karrawai karne		men mail
	zaruri hai.	par bhi crank hanale	The state of the s	ya ret hona.
	Difference of the second secon	age ko chalte chalte		(d) Packing
Agar crank handle ki yih posi-	Jab bar bar parne wali	usi position par ruk		ziada hona.
on ho to samajh lena-	rok dálni ho to in-	jae to crank handle ko		(e) Barrel ka
hahie kih lock itna pichhe	structor "gun do châr	ghumákar roller tak	ALEXANT OF THE	ghisa hona.
o nahin a sakta kih ex.		le ao, rear cover ko	handene herrene	(f) Belt ke
tractor ko girne de.	band ho játi hai"	kholo aur extractor	Troping.	khánon ka
	pukare.	ke face par se round	The state of the s	tang hona.

Crank handle ki position.	Roken dålne ka tariqa.	Fauri iláj,	dobára parne se rokna.	Rok galiban kis wajah se parl.
A CONTRACT OF STREET,	Aisi rok dálne ke lie jo kamzor ya tute hue eið spring ke sabab se parti hai half	hatákar lock badal do aur tel dekar phir load karo,		(g) Jame hue páni ya tel ki ragar hona.
	kholo, lock ko khench- kar upar uthåo, cart- ridge ko extractor ke face par ådhi dur tak	His spale get or googs from the googs		(iii) Gib spring ka kamzor ya tuta hona.
	nichle projection ke niche tak kar do, lock us ki jagah	Party tests thereof per party		
	par phir laga do aur belt ko left front ki taraf daháo.	THE STATE IS DUE FOR ALLES		
	Chándmári ke waqt (bár bár parne wáli roken).—Fuzee spring ka zor barha do.	Principal principal street principal str		が は は は は は は は は は は は は は

Dusri position wall rok.

Is se pahle kih dusri position wali rok ka fauri ilaj sikhaya jae, clearing plug se kam lene ki sikhlai is par di jáe: tarige

Aisa case nikálne ka tariqa jo tutkar do tukre ho gaya ho. Clearing plug ko lekar (aur yih dekhkar kih centre pin pichhe ki taraf hai) us ko chamber men dál do. Lock ko áhista áhista áge jáne do aur pin ko dabákar us ki thik jagah par kar do. Phir crank handle ko mazbuti se pakre pakre clearing plug ke daste ko dahne báen hiláo, crank handle ko pichhe ki taraf khencho aur clearing plug ke daste ko thonk-kar pichhe kar do aur clearing plug ke caste ko thonk-kar pichhe kar do aur clearing plug ko chamber men se khenchkar nikál lo. Ab dekha jáega kih case ka jo agla hissa tutkar alag ho gaya hai, wuh clearing plug ke sire par charhkar us ke sáth nikal áya hai. Is ke bád centre pin ko thonk-kar phir us ki jagah par laga do aur tute hue khokhe ka jo hissa clearing plug par charha hua hai use alag kar lo.

ta kartus.
(b) Tuta hua
case jis ka
agla hissa
d u s r e Rok gáliban kis wajah se us ke sáth nikal áya hai, (i) (a) Chapround par charbkar pari. Agar caseon ke do do tukre barábar hote hote jaen to
lock alag kar lo
aur adjusting
nut ke åge ek
No. I aur ek d 0. tukre par aur (ii) 2 washer Rokon ko dobára parne se Agar is I bhi caseon rokna badal op (i) (b) No. qo láhaza karo, Agar kártus chapta ho ya thik ho, lekin kisi tute hue case ka agla hissa us ke sáth laga hua ho, to "Nahin pichhe ki taraf khen-cho aur p u k å r o "clearing plug". Rear cover ko kholo, lock ko utháo aur extractor ke face par jo kártus ho us ka muko ko kholo, handle Fauri iláj. Crank dummy round belt men (i) (a) Belt men sab se áge ek chapta dummy round dálkar load Roken dálne ka tariga. cover kholo aur lock khenchkar utháo. Phir us round ki goli par jo extractor par agia hissa charhákar karo. Chándmári ke waqt.-Ek chapta (b) Half load karke Crank handle ki position. position Dusri

	L 1	
Rok gáliban kis wajah se pari.	STATE OF THE PARTY	(ii) Tuta hua case jis ka agla hissa chamber men rah gaya hai,
Rokon ko dobára parne se rokna,	lagáo. Pahle hi mauqe par i n washeron ko adjusting nut ke pichhe laga dia jáe. Note.—Armourer ko is ki report di jáe.	THE PER POSITION OF THE PERSON
Fauri ilâj.	cháhie" pukáro aur extractor ke face ko sá f karke re-load karo.	(ii) Agar extractor par ek a i sa achchha round ko jis ki goli par dusre tute hue case ka agla hissa phanskar na charha ho to extractor ke munh ko sáf karke aur crank handle ko
Roken dålne ka tariqa.	mazbuti se phansa do jo tutkar alag ho gaya ho. Ab lock ko phir us ki jagah par rakhkar rear cover ko band kar do aur belt ko khenchkar crank handle ko ahista age jane do. Note.—Dusra tariqa yih hai kih ek dummy round istemal karo jis ke agle sire par ek tute hue case ka agla hissa jhálkar jor dia gaya ho.	(ii) Half load karke crank handle ko roller par låo, rear cover ko uthåo aur lock ko uthåkar båhar nikål lo. Phir tute hue case ke agle hisse ko extractor ki goli par narmi se charhåkar
Crank handle ki position.	Agar yih position ho to samajh lena cháhie kih lock recoil hone ke bád puri tarah áge nahin ja sakta.	Start for Kent 1991 and very see at the control of

chalne do, Vih kam is tarah karo kih case ka tuta hua hissa chamber hi men rah jae. Ab rear cover ko band karo aur belt ko left front ki taraf khencho.

roller par gaim rakhte hue lock ko phir
gun men lagao. Ab
clearing plug ko kam
men lao aur dobára
load karo.

ke

(c) Belt khánon

hua

dhila

hona.

ghisa ya d

(d) Belt box ka feed-block ki thik sidh

n a

men

hona.

áge jáne do. Chándmári ke wagt.

(iii) (a) Lambe pital ke patre ka

hona ya us men kuchh

inura hua

nuqs hona.

se bhara

sition men rok ziadatar belton

hua belt.

ko buri tarah

Is se pable kih tisri position wäli rok ke fauri iläj ka chautha darja slkhåya jae jis men extractor ko märkar niche karne ki zarurat hoti hai, clearing plug se käm lene ka durust tariqa sikhåya jäe. Wuh tariqa yih hai—Pahle clearing Plug ke daste ka uparla sira båen håth se is tarah pakro kih plug ka gåo-dnm hissa bhinchi hui mutthi ki uparli satah par tika rahe. Ab clearing plug ke daste ke sire ko cxtractor ki uparli satah par rakhkar clearing plug ko dahne håth se chatak se märkar niche kar do.

	[40]	
Rok gáliban kis wajah se pari,	(i) Kårtus feed block men zara tirchha hai.	(ii) Lock wa- gaira men ragar hona.
dobára parnese kis wajah se rókna.	(i) Belt men bhare hue roundon ka muláhaza ka- ro, kahin un men koi kha- rábi to nahin,	(ii) Fire karte (ii) Lock wa-waqt ki hida-gaira men yaton ka kha-ragar hona.
Fauri iláj.	(i) Crank handle ko (i) Belt men (i) Kártus zara sa utháo, belt ko bhare hue feed block left front ki tara f roundon ka men zara khencho, crank handle ko chhor do aur háth ki hatheli crank par is tarah tirchhi máro kih crank handle chéck lever par baith jáe.	(ii) Agar rok dobára par jáe to fauri riáj ki kárrawái ko duhráo. Phir belt nikále bagair unload karke chalne wále purzon
Roken dålne ka tariqa.	(i) Half load karo, phir crank handle ko ghumakar roller tak le so aur roller cover ko uthåkar belt ko itna khencho kih ek kårtus feed-block ke andar sire se ådhe fåsile tak chala jåe. Crank handle ko åhista åhista åge jåne do tåkih wuh third position men rahe aur rear cover ko band kar do.	(ii) Load karo, lekin erank handle ko do-bara áhista áhista áge lejána zaruri hai tákih tisri position men rah jáe.
Crank handle ki position.	Tisri position	Agar yih position ho to samajh lena cháhie kih extractor apni sab se unchi position men nahín ja sakta,

「 46]

Note:-Agar ragar ke sabab se rok par gai ho to sikhlái ke lie (iii) Belt men se chau-the round ko koi adh inch bahar nikalo. dikhana zaruri hai. dobára rok gar feed-block slide atka hua ho, to feed men nuqs hoga.

se pable aur fire karte waqt ki hidayaton ka khayál ra-kho. Note; – Tisri powajah se parti (iii) Fire karne hang kar de. Iske båd No. 1 recoil hone wåle hisson ko pi-chhe ko khenche aur No. 2 top pawlon koniche kare aur belt ko khenche. Is par No. 1 recoil hone wale hisson ko age chalne deta hai, jis se matlab ke lie baz dafa is bat ki zarurat parti hai kih No. 2 extractor ke singon ko dabakar niche ko tel do aur dobára (iii) Agar (i) men batáe hue iláj se kám na chale to feed-block slide ko dekho, Agar wuh phanskar rah gaya ho to No. 1 "feed ho to No. 1 "feed block" pukare, crank handle ko khenchkar kar de), rear cover ko ko lock aur uthåe inch báhar nikálo.

Phir half load karo
aur crank handle ko
á h i s ta se pichhe
khencho yahán tak
kih extractor ke sing
camou ke stepon men
lag jáen. Crank handle
ka knob áge ki taraf
aur us ki dum pichhe
ki taraf khenchkar son ko khench lo; sath hi belt ko bain taraf khencho. Crank handle ko roller par le ao, aur ahista se Ek belt men ammuni-tion buri tarah bharo ya ek pital ke lambe pattar ko mor do, ya belt box ko feed-block dálkar

	[48]	[49]		
Rok galibarkis wajah	(iv) Ek bigre hue pende wåla round,		Rok gáliban kis wajah se pari. (i) Mistire.	
Rokon ko dobára parne se rokna.			Rokon ko dobára parne se rokna.	
Fauri iláj.	feed-block stide bain taraf ko sarak jata hai. Phir No. 2 belt men roumdon ko sidha kare, No. 1 reas cover ko niche kare, crank handle ko roller par khenchkar le åe aur belt ko left front ki taraf khenchkar crank handle ko åge jäne de. (iv) Agar slide sakht na ho to Number 1 "Extractor ke singon ko niche daba de. Number 2 extractor ke singon ko niche daba de. Number 2 pawlon ko dabáe, belt ko khenche aur belt men se pahla kártus nikále, phir Number 1 rout ko dabáe, belt ko khenche aur belt men se pahla kártus nikále, phir Number 1 rout kar de aur dobára load kar de	wáli rok.	Fauri iláj. (i) Crank ha n d l e ko khenchkar reller par le áo, belt ko left front ki taraf khencho aur crank handle ko chhor do.	
Roken dálne ka tariga.	se tirchhe rukh par rakho. (iv) Ek bigre h u e (iv) eelt un e n samne se dusre number par rakho, phir load karke crank handle ko dusri bar ahista se age jane do. Extractor ke grooveon ko nuqsanse bachane ke lie (sikhlai dete waqt) ek aisa dummy cartridge istemäl	kia ja sakta hai jo pende ke pås se phula hua ho. Aise mauqe par gun ko load karne se pahle us cartridge ko belt men pahle round ke taur par lagåya jåe. Note.—Chandmari ke waqt is rok ki mashq na karni chähie, kih pende ke bigre hone se extractor ke groove kharåb ho jåen. Chauthi position	Roken dálne ka tariga (i) Load karo, Jaise hi crank handle áge ko chale thumb-piece ko dabáo. Chándmári ke waqt.— Rett men ek dummy	round lagao
Crank handle ki position.			Crank handle ki position Chauthi position.	

-	-	7	7
	5]
L	1	A Selection	-1

			50]	
Rok gáliban kis wajah se pari,	(ii) (a) Tuta h u a y a bigra hua fring pin. (b) Tuta hua lock spring.		ka (iii) Belt men khâli khâna.	
Rok Ki	(ii) (a) h u a bigra foring (b) Tut lock sp	1	(iii) me khg	
ko arne 1a.			+-X	
Rokon ko dobára parne se rokna.	Edution of the control of the contro		(iii) Belton mulahaza ro.	
70	,			
Fauri ilaj.	(ii) Agar (i) men batái hui kárrawás karne se iláj na ho to (belt ko nikále bagair) lock badalkar dobára load karo.		(iii) Agar (i) men batái hui kárrawái karte waqt Number 1 yih dekhe kih belt mamuli se ziáda báin taraf ko áya hai to load karne ki harakaton ka dusra hissa kare,	
Roken daine ka tariqa.	(ii) Load karo aur jaise hi crank handle åge ko chale thumb-piece ko dabåo. Number 1 ke fauri ilåj karne par instructor pukåre "gun fire nahinkarti."	Chándmári ke waqt.— Belt men do dummy round lagáo.	(iii) Jaise hi crank handle åge ko chale thumb-piece d a b å o. Belt ka itna hissa feedblock men dål do kih pahla round hottom pahla round hottom ke finger-piece ki sidh men a jåe.	Chándmári ke wagt.— Beit men ek khána kháli chhor do,
Crank handle ki position.			Agar yih position ho to samajh lena chahie kih round fire nahin hua, aur agar wuh fire hua hai to recoil awwal to hua hi nahin aur agar hua bhi hai to bahut thora. Is lie lock agli position men hi rah gaya hai.	

Khás khás roken.

vuh roller par tika	Half load karke juzee spring box aut fuzee spring donon ko khol-	Fuzee spring box ko kholkar alag kar lo aur belt ko lest front	rokna.	se pari. T u ta hua f u z e e ya fuzee spring.
hoga,	kar alag kar lo. Phir crank handle ko ko khenchkar roller par le ao. Belt ko left front ki taraf khencho, fusee spring ko fuzee se alag karke fuzee se alag karke fuzee spring box ko phir se jor do.	ki taraf khenchkar crank handle ko phir check lever par le ao. Ab tuta hua fuzee (ya fuzee spring jaisi surat ho) nikalkar us ki jagah dusra fuzee (ya fuzee spring) jor do. Agar fuzee spring jorne do. Agar fuzee spring tut gaya ho to dusra spring jorne ke bad durusti se wazan kar		
Security of the property of the party of the		Sent and represent the party of	The particular de la constante	

		[52]	[53]
	Rok galiban kis wajah se pari.	(a) Bigre hue c a r tridge groove ya (b) Tuta hua gib spring ya (c) Tuta hua: - Tuta hua: - (a) Upper le- ver ya (b) Lower le- ver ya (c) Top pawl ya spring.	(d) Bottom pawl ya spring. (a) Trigger ki nak ya tumbler ke bent ka tuta ya ghisa hona.
The state of the s	Rokon ko dobára parne se rokna.	Total Institute of the Control of th	
roken.	Fauri ilāj.	Agar fauri iláj ki kárrawái karne ke bád p h i r se load karne par rok usi tarah par jáe to fauri iláj ki kárrawái duhráo aur lock badal dálo. (a) (b) (c) Fauri iláj ki ki w u h i kárrawái karo io chauthi position wáli rok ke lie ki játi hai. Lock ke badal die jáne ke bád gun do round fire karkeruk játi hai aur crank handle usi position par ákar rah játa hai. Feed-block badal dia jáe.	(d) Fauri ilâj ki wuhi kârrawâi karo jo belt men khâli khâne ke lie ki jâti hai. Gun do round fire karke phir usi position Farruk jâegi. Is parfeed block badal dia jâe. 1. No. 1 belt men se ek round nikâle.
Khas khas	Roken dálne ka tariga.	Belt men pahle aur tisre round ke taur par do aise dummy round lagáo jo pende ke qarib phul gae hon. Phir crank handle ko áhista áhista dobára áge ko le játe hue load karna shu ru karo. Jab crank handle áge ko chalte chalte ruk jáe to use halke háth se niche ko máro. (a) (b) (c) Unload karke lock spring ko chhura do. Phir belt ko itna khencho kih us men laga hua pahla round bottom pawlon ke sámne a jáe. Ab jawán ko cháhie kih fauri iláj ki wuhi kárrawái kare jo tute hue lock spring ke lie kin gan hue lock spring ke lie	jawan yih karrawai kar chuke to us ko yih bataya jae kih gun sirf do round fire karke ruk gai hai auu crank handle phir usi position par akar ruk gaya hai. (Yih dekhkar us ko feed-block ka mulaha-za karna chahie. Tuta hua purza usi men paya jaega.) (A) Rok usi tarah dalo jis tarah belt men khali khane ke lie dali jati hai. Jab jawan upar batai hui rok ke fauri ilaj ke lie durust karrawai kar chuke to use bataya jae kih gun sirf do round fire karke phir usi position par ruk gai hai. 1. "Load" ka hukm do. Jaise hi crank handle dusri dafa check lever se a lage "gun fire kar rahi hai" pukaro.
A CONTRACTOR OF THE PROPERTY O	Crank handle ki position.	hone ki pahchán yih hai kih extractor apni sab se unchi position tak nahin uth sakta.	

Rok gáliban kis wajah se pari.	(b) Trigger axis pin se up ar lock spring ke chhotebazu ka tuta hona.
Rokon ko dobâra parne se rokna.	:
Fauri iláj.	phir "stop" ka hukm ho jae to wuh crank humb-piece par se da-bao hatae "gun bara-bao hatae bagair badla ja sakega.
Roken daine ka tariga	2. Pahle "load aur fire" phir "stop" ka hukm do. Jaise hi No. I thumb-piece par se dabáo hatáe "gun barábar fire kar rahi hai" pukáro.
Crank handle ki position.	

-Agar rok kisi aisi position par par jae jis men thumbpiece par se dabao hatakar gun ka fire band ja sake to fauri ilaj ki hamesha yih karrawai ki jae:—Crank handle ko roller par lakar belt alag Agar dusri position wali koi rok par jae to is bat ka khayal rakhna nihayat zaruri hai kih round waqt extractor barabar niche ko daba rahe.

SECTION 7.—MARAMMAT.

Instructor ke lie note.

Zaruri sámán.—Gun, tripod, belt box aur belt, dummy roundon samet spare parts case aur spare parts box, puráne belt ke kuchh tukre káfi falálain aur luting.

Foresight dahne báen hatákar nishána thik karne ki sikhlái mamuli sipáhion ko na di jáe.

Agar luting na mil sake to sikhlái ke lie us ke bajáe koi bhi munásib chiz kám men lái ja sakti hai, masalan plasticine, ya potin wagaira.

Sattaiswan Sabaq.—Gun men purze jorna aur marammat karna.

(a) Muzzle attachment men naya disc lagana.

Front cone ko utár lo. Disc ke kináre ko kátkar us ka itna hissa sámne ki taraf mor do kih pliers ki pakar men a sake. Phir puráne disc ko nikálkar naya disc lagáo. Mumkin hai kih nae, disc ko front cone par lagáne ke lie áhista áhista thonkne ki zarurat pare.

(b) Auxiliary packing gland jorna.

Agar goli wagaira lagne se packing gland ko itna nuqsan pahunche kih kam na de sake to use utakar us ki jagah auxiliary packing gland jora ja sakta hai. Iska tariqa yih hai:—

Outer casing muzzle attachment, muzzle cup ur bigra hua packing gland utár lo. Phir combination tool se kám lete hue auxiliary packing gland jorkar las do aur fuzee spring ka wázan koi 3 pound kam kar lo.

(c) Foresight ko dahne báen hatákar durust karna (sirf uhdadáron ke lie).

Agar foresight ko nuqsán pahuncha ho, ya wuh pni durust jagah se sarak gaya ho, to use phir se durust karna zaruri hai. Yih kám sirf tajribakár uhdadár hi kare aur sirf 30 gaz wále range par kare.

Target.—Target par khare rukh aiming mark ke taur par ek moti lakir ho. Is moti lakir ke centre ko dahne ko 5/8" ke fásile par pencil ki lakir ho. Yih lakir itni bárik khichi hui ho kih fire karne wále ko nazar na ae.

Pahle kuchh burst fire karke gun ko us ki jagah par achchhi tarah jama lia jáe.

Phir firing lever aur safety catch ke darmiyán el punch guzárkar 10 roundon ka group fire kia jáe.

Agar foresight apni durust jagah par laga ho to ziáda golián pencil ki lakir par lagengi yane jis jagah ki shist li gai hai us se 5/8" dahni taraf ko. Agar fore sight apni durust jagah par laga na ho yane agar ziáda golián pencil ki lakir ke dahne ya báen ko lagti hon to jis taraf ko jis qadar hatkar lagti hon foresight ko, No. 3 punch aur hammer se thonk-kar usi taraf ko usi gadar sarka do.

Har dafa durusti karne ke bád das roundon ka el burst fire kia jáe yahán tak kih foresight durust jagah par a jáe. Foresight ko bari hoshyári ke sáth halke háth se thonk-kar zara zara karke sarkána cháhie kion kih foresight ki position men zara si tabdili karne se golián káfi dahne ya báen ko hatkar lagti hain. Agar foresight bahut ziáda sakht ho to bracket ko sahára dia jáe tákih thar-tharáhat se dhila na ho jáe. Zaruri ha kih tripod ka socket bilkul sidha khara ho. Har ek group fire karne ke bád bari hoshyári ke sáth shist ki durust ki partál karna cháhie tákih agar tripod apni jagah se sarak gaya ho to is ka pata lag jáe.

(d) Barrel casing men surákh ho jána.

Agar barrel casing men golion wagaira se surákh ho jáe to niche likhe hue gáidon ke mutábiq unit h men us ki marammat ki jáe:-

kisi aur kapre men lapet dia jáe to ziáda ne páe.

munasib hoga, kionkih is tarah wuh dabkar surákh ya surákhon men se andar ko na ghus sakegi). Phir is gaddi ke upar tel lagi hui falálain ka tukra laga do aur falálain ki patti lapetkar bándh do. Is se surákh bilkul to nahin band honge lekin phir bhi bahut thora páni niklega aur gun fire kar sakegi.

(e) Belt ki marammat wále auzár ke istemál ki bábat hidáyaten.

Kharáb pattron aur eyeleton ko utár do. Agar amba pattra lagána ho to pahle donon siron ko is arah joro kih ek eyelet ale ke chaure sire men rahe. Auzár ka punch, eyelet ke us sire men dálo jo khula hua a ho, aur us ka khula hua sira auzár ke die par tikne lo, phir donon handleon ko áhista áhista dabákar miláo. Ab eyelet ke dusre sire men, punch dálkar donon handleon ko dabáo. Pattre ko pare rukh rakho aur uzár ke handleon ko auzár ke punch ke cháron taraf olái men áge pichhe hiláo tákih eyelet ka sira durust hakl ka ban jáe.

Pattron ko belt men apni apni jagah par laga do, yelet andar guzár do aur phir pahle ki tarah amal karo.

Chhote pattre bhi upar hi wale tariqe se jore jate hain. Farq sirf itna hai kih belt par lagáne se pahle in ko ek sire se jorne ki zarurat nahin hoti.

Is bát ka khayál rakhna cháhie kih auzár istemál larne se pahle eyelet jahán tak ja sake pattre ke andar laba dia jáe.

(f) Phate hue belt ki marammat karna.

Agar belt bahut phat gaya ho to phate hue hisse o kátkar alag karo aur achchhe siron ko ápas men si do a riveton se jor do aur jor par pital ki pattri charha do. Belt ko aisi hoshyári se kátna cháhie kih niwár ke Luting ki ek chhoti si gaddi banákar surákh ya apar wále hisse ka marammat kia hua hissa us ke niche surákhon par jáma do (agar ise falálain ya kale hisse ki marammat ki hui jagah ke thik upar na

SECTION 8.—BLANK FIRING ATTACHMENT.

Instructor ke lie note.

Zaruri sámán.

Service gun aur tripod, belt box aur belt, spare parts case aur spare parts box.

Barrel, Mk. II, "D. P. B." (drill purposes, blank).

Cone, front, muzzle attachment, blank.

Cup, muzzle attachment, blank.

Nut, adjusting, muzze attachment, blank.

Screw, adjusting, muzzle attachment, blank.

Spanner, muzzle attachment, blank.

ATTHAISWAN SABAQ.—Gun ko durust karna.

1. Barrel, breech par khás taur se choke kia hua hota hai, aur is ke trunnion block par "D. P. B." likha hota hai.

Adjusting screw, front cone men pichhe se dálkar kasa játá hai, tákih is ka bara sira muzzle cup men lag cake.

Front cone, adjusting screw samet muzzle attachment ke outer casing men jangi front cone ke bajáe jor dia játa hai.

Adjusting nut, adjusting screw ke nikle hue hisse par charhákar kas dia játa hai aur front cone ki satah men lagkar jam játa hai.

Spanner is tarah ka banáya gaya hai kih muzzle cup, adjusting screw aur nut par charháya ja sake.

2. Gun ko us waqt durust karna jab "blank firing" ke khás purze jure hue hon.—Fuzee spring alag karke crank handle ke boss par spring balance ka phanda charhákar wazan karna cháhie aur dekhna cháhie kih recoil hone wále hisson ko pichhe khenchne ke lie jis wazan ki zarurat hoti hai wuh 2 pound se ziáda to nahin hai.

Fuzee spring ka wazan, jab spring balance ke phande ko crank handle ke knob par dálkar dekha jáe to 7 aur 9 pound ke darmiyán hona cháhie.

Muzzle attachment ke adjusting screw ko pahle andar ki taraf itna kasna cháhie kih wuh muzzle cup ko chhune lage. Yih kám karte waqt feed-block ko nikál lena cháhie tákih is bát par nazar rakhi ja sake kih recoil hone wále hisse pichhe ko to nahin chalte. Ab adjusting screw ko dhái chakkar kholkar nut ke zarie wahin par qáim kar do. Is durusti men bahut zaruri hai kih gun men fuzee spring durusti se jora jáe. Is ke bád adjusting screw ki aur durusti na ki jáe aur fire karte waqt jis qadar durusti zaruri malum ho wuh fuzee spring ko thik karke ki jáe, jis tarah service gun ke lie ki játi hai.

Note.

- (a) Fire karne ke lie sirf service gunon se kám lia jáe.
- (b) Ek belt (aur ho sake to aisa belt jis ke kháne istemál hote hote kisi gadar bare ho gae hon) istemál kia jáe. Blank ammunition ke round das das roundon ke group karke is tarah belt men lagáe jáen kih un ke pichke hue sire belt ke sámne wále kináre ke barábar rahen. Fire karti hui machine gun záhir karne ke lie roundon ki vih tadád káfi hoti hai aur barrel ka choke ziáda dinon tak kám dene ke gábil bhi rahta hai.
- (c) Agar yih sáf záhir ho kih gun beqáidagi se fire karne lagi hai to barrel ko kholkar armourer ke muláhaze ke lie alag rakhna cháhie.
- (d) Barrel casing men usi tarah páni bhar dia jáe jis tarah jangi ammunition fire karne ke lie bhara játa hai.
- (e) Jab gun men blank firing attachment laga hua ho to wuh us waqt tak gun chest men nahin rakhi ja sakti jab tak muzzle

attachment ka outer casing apne purzon

samet utár na lia jáe.

(f) Blank ammunition fire karne ke bád gunon par se blank ammunition ke khás purze fauran utár lene cháhien, tákih gunen phir usi hálat men a jáen, jis men sabaq shuru hone se pahle thin aur un se jángi ammunition fire kia ja sake.

(g) Gun ám tariqe ke mutábiq sáf ki jáe, yane usi tarah sáf ki jáe jis tarah jangi ammunition fire karne ke bád sáf ki játi hai. Sirf itna farq hai kih blank ammunition fire karne ke bád barrel ke andar ke hisse ko choke se áge sáf nahin kia játa.

SECTION 9.—ÁLE KA ISTEMÁL AUR SHIST LENE KA KÁM : ÁM BAYÁN.

1. (i) Zaruri hai kih tamám uhdadár aur sipáhi niche batáe hue álon se kám lene men puri tarah hoshyár hon:—

Aiming post.

Zero Post.

Direction dial.

Elevating wheel.

Clinometer.

Bar foresight.

(ii) Tamám officer aur uhdadár Slide Rule se kám lene men puri tarah hoshyár hon. Tamám officeron au pakke uhdadáron ko niche batáe hue do álon se kám lene ki sikhlái di jáe:—

Director.

(iii) Upar batái hui báton ke aláwa jin officero aur uhdadáron ko director se kám lene ki sikhlái gai ho wuh is qábil hon kih ále ko test karke us

durusti jánch saken aur yih bhi faisala kar saken kih clinometer thik se adjust hai ya nahin.

(iv) Qábiliyat ka zaruri darja malum karne ke lie dekho T.O.E.D.

UNTISWAN SABAQ.—Tangent Sight AUR Fixed Sight.

Zaruri sámán.—Gun, tripod, belt box, landscape target.

Instructor ke lie note.

1. Sight lagana.

Niche batáe hue kám samjhákar namune dikháo: -

- (i) Direction aur elevation hásil karne ke lie sighton ka istemál.
- (ii) Sight lagáne ka durust tariqa. Sab se chhoti durusti 50 gaz ki batái jáe.
- (iii) Yih kih graduated plate par kisi fásile ki durust lakir wuh lakir hoti hai jo us fásile ko záhir karne wále hindase ke niche kati hui ho.
- (iv) Fixed sight 400 gaz tak ke fásilon ke lie istemál kia jáega.

Jawánon se kai ek fásilon ke lie sight lagwáe jáen.

2. Shist lene ke qaide.

Bayán karo:

- (i) Zaruri hai kih sight thik sidha khara ho.
 Agar tripod durusti se khara kia jáe to
 aisa yaqin ho sakta hai.
- (ii) Ánkh aperture ke jitni qarib rakhi ja sake rakhi jáe.
- (iii) Fire karne wála khud aperture ko na dekhe balkih us men se nisháne ko dekhe.

Shist lene men jo galatián ám taur par hua kartihain un ke namune dikháo (dekho Pamphlet No. 3, Chhata Sabaq).

Yih samjháo kih sikhlái men jis waqt gulzari ya aiming post ya batti ki shist li jáe shist lene wále ko cháhie kih gulzari ya aiming post ke nichle hisse ke bichon bich shist le kionkih agar centre yane bich wále hisse ki shist li jáe to foresight sáf taur par dikhái nahin dega.

3. Shist lene ke tariqe aur sikhlái ki tartib.

- (i) "Holding" kie bagair gun ko aiming post par durusti se lay karo. Lay karte waqt thori ko háth par tikána zaruri hai. Ek belt box ghutnon par rakhkar us par saháre ke lie kuhnián tikái ja sakti hain ya lay karne wála agar cháhe to ek belt box ko sire ke bal khara karke us ke upar apne bázu tikáe. Bayán karo kih direction traversing handleon ko tap kar karke aur elevating wheel ko ghumákar hásil kia játa hai.
 - (ii) Phir har ek jawán shist ko dekhe aur bári bári holding kie bagair gun lay kare.
 - Agar koi galati malum ho to samjha do kih u galati ka kya asar parega. Is ke alawa galati ki durusti karao.
 - Agar kisi jawán ki shist galat ho to zaruri ha kih us ko us ki galati is tarah dikháka samjhái jáe kih khud galati mán le.
 - (iii) Jawánon ko "holding" karke shist lena sikh ayá jáe. Zaruri hai kih tripod achchhahalat men ho, warna "holding" karke au "holding" kie bagair jo shisten li jáeng un men káfi farq hoga. Asl men famahin hona cháhie.
 - (iv) Landscape target ke nihsánon par aur sab ákhir men qudrati nishánon par shist len ka tariqa dikháo.

(v) Yih dikháo kih shist ke asli nishán se dahne ya báen ko shist ka dusra nishán kis tarah pahchána játa hai.

Gun ko tap karke kisi aise nishán ya jagah ki shist lo jo shist ke asli nishán se dahne ya báen ko ho phir jawán se kah do kih jis nishán ya jagah ki shist li gai hai us ka bayán kare.

(vi) Namuna dikhákar yih batáo kih tangent slide ko upar ya niche karke shist ka aisa nishán kis tarah chuna játa hai jo asli nisháne ke thik upar ya niche ho.

TISWAN SABAQ.—Bar Foresight.

Zaruri sámán.— Bar foresight, gun, tripod, aur aiming post.

Bayán karo aur namuna dikháo.

- I. Bayán.
- 1. Sight faulád ka bana hota hai, aur us ke yih hisse hote hain:—
 - (i) Ek bar koi das inch lamba, jis par das das minute aur degree ke nishán (bich wáli lakir se dahne báen sát sát degree tak) bane hote hain.
 - (ii) Ek ulte U ki shakl ka bracket jis men bar jura hota hai aur jo aisa bana hota hai kih gun ke foresight ke protecting wingon men lag jáe. Is bracket ke báen pahlu men ek pech hota hai jo foresight ke báen wing ke surákh men lag játa hai, aur dahne pahlu men ek spring stud hota hai jo foresight ke dahne wing ke katáo men baith játa hai.

Bracket ki upar ki satah par das das minute ke waise hi nishán bane hote hain jaise bar par, aur bich wáli lakir par zero likha hota hai.

(iii) Sliding sight jis men ek clamp screw laga hota hai, tákih sliding sight ko bar par jis jagah cháhen sarkákar kas saken.

Sight par ek central blade aur protecting wing lage hote hain. Yih sight aisa bana hota hai kih rát ke waqt fire karne ke lie zarurat ho to is par night sight lagáe ja saken.

Slide par do pointer lage hote hain, jin ke zarie bar aur bracket ki degree aur minute parhe játe hain.

Sight ko jorte waqt khayál rakha jáe kih pech par ziáda zor na dála jáe, kionkih is se gun ke sight protecting wingon ki shakl bigar jáegi aur bar tirchha ho jáega.

2. Bar Foresight ko lagána.

Gun mount ki hui, number 2 gun ke dahni taraf kneeling position men, bar foresight jawán ke pouch men aur pouch jawán ke báen kandhe par sling kia hua ho.

Number 2 foresight ko pouch men se nikále aur dekh le kih wuh zero par hai. Phir wuh bar foresight ko gun ke foresight protecting wingon ke upar rakhe aur yih itminán karke kih spring stud dahne bázu ke katáo men baith gaya hai, bracket ke clamp screw ko kas de.

3. Bar foresight ke zarie angle of direction lay off karna.

Gun mount ki hui, bar foresight laga hua aur shist ke nishan par lay off kia hua. No. 2 gun par.

Number 2 batáe hue deflection ke mutábiq bar foresight ko durust kare.

Yád rahe kih agar deflection báen ko batáya jáe to sight dahne ko sarkána cháhie aur dahne ko batáya jáe to báen ko. Sight is tarah lagáya jáe kih us men 2

minute se ziáda ki galati na ho, magar hukm dete waqt qarib se qarib ka aisa adad batáya jáe jo pánch par taqsim ho jáe.

Bar foresight ko pouch men rakhte waqt zero par

laga dia jáe.

II. Jawánon se mashq karáo.

IKTISWAN SABAQ.— (a) Post, Aiming, M.G. Mark I; (b) Zero Post, M.G. Mark I.

Zaruri sámán.—Aiming post, gun, tripod, bar foresight, aur zero post.

Bayán karo aur namuna dikháo.

I. Bayán.

A. Post, Aiming, M.G. Mark I.

Aiming post durbin ki si banáwat ka ek stand hota hai, jis ka upar ka hissa uncha nicha kia ja sakta hai.

Stand ke nichle sire par ek dháti plate hota hai, jis men tin mekhen lagi hoti hain. Plate ko páon se dabákar mekhen zamin men gári ja sakti hain. Sáth hi plate se yih fáida hota hai kih narm zámin men stand ziáda nahin dhansne páta.

Aiming post ke nichle hisse (yane nalke) ke upar wâle sire par ek clamping screw hota hai, jis ke zarie upar wâle hisse ko jis unchâi par châhen kas sakte hain.

Upar wále hisse (yane nalke men jáne wáli salákh) ke upar wále sire par ek bracket hota hai jis ke ek taraf ek day aiming mark (din ke waqt shist lene ka nishán, yane safed zamin par kála bulls eye) pakke taur par laga hota hai. Bracket ki dusri taraf night aiming lamp ke lie (jab yih istemál men ho) tekan ka kám deti hai. Salákh par ek collar aur clamping screw hota hai, jis se yih fáida hota hai kih agar salákh ghumái jáe to bhi ek muqarrara unchái par rahti hai.

Is tarah agar cháhen to aiming lamp ko usi unchái par laga sakte hain jis unchái par day aiming mark ho.

(ii) Aiming post ko khara karna.

Gun mount aur koi sa quadrant angle dekar lay ki jáe, bar foresight lagáya jáe. Number 1 gun par ho, Number 3 chand gaz pichhe aiming post lie hue khara ho. Instructor Number 1 ke taur par kám kar sakta hai.

Number 1, gun ko hiláe bagair, tangent sight ko sarkákar 2,500 gaz par lagáta hai. Number 3 gun ke pás játa hai aur sighton par se dekhkar shist ke nishán ki qarib qarib durust jagah malum karta hai. Is ke bád wuh kam se kam 5 gaz áge ko aiming post khara karta hai. Number 1 isháron ke zarie Number 3 se post ko idhar udhar hatwáta rahta hai, yahán tak kih line of sight shist ke nishán par 6 baje par a játi hai.

Number 3 ko cháhie kih ya to shist ke nishán ko zamin par rakh de ya post ko khare rukh lagáe. Agar yih na ho sake to post ke páe ko ek taraf se zamin men mazbuti ke sáth itna dhansa dena cháhie kih post ki salákh ko zarurat ke mutábiq ásáni se upar niche kia ja sake.

Is ki mashq bar sight ko lagákar aur bagair lage donon tarah karni cháhie.

II. Jawánon se mashq karáo.

B. Post Zero M.G. Mark I.

- I. Bayán karo aur namuna dikháo:-
- (i) Post, zero, M.G., Mark I.

Zero post lohe ka hota hai aur is ki lambái 3 foot hoti hai. Is ke uparle sire par 4 inch qutr ka ek kara sa bana hota hai aur nichla sira nokdár hota hai.

(ii) Zero post lagána.

Gun mount aur koi sa quadrant angle dekar lay kia jáe; bar foresight laga hua ho. No. 1 gun par ho. No. 3 chand gaz pichhe zero post lie hue khara ho. Instructor No. 1 ke taur par kám kar sakta hai.

No. 1 aur No. 3 usi tarah kám karen jis tarah aimng post lagáte waqt kia játa hai.

Zero post ko is tarah lagáya jáe kih line of sight us jagah se guzre jahán kara post ke dande men jura hua hai.

Agar ise sidha khara na lagáya ja sake to dahne ya báen ko jhukákar lagáya ja sakta hai. Is bát ki htiyát rakhni zaruri hai kih zero post ko mora na jáe ur use is tariqe se lagáya jáe kih fire unit ki kisi gun ka fire us par na par sake.

II.—Jawánon se mashq karáo.

BATTISWAN SABAQ. _ Direction Dial Mk. I.

Instructor ke lie note.

Zaruri sámán.—Gun aur tripod.

Bayán karo aur namuna dikháo:
 Dial par bane hue darje (ya nishán).
 Harf "R" aur "L".
 Pointer.
 Clamping screw.

(i) Bayán.

Direction dial par Right aur Left donon taraf "O" se lekar 180 degree tak ke nishán bane hue hain. "O" ek pech ke zarie záhir kia gaya hai. Scale socket ke gird ghumáya ja sakta hai aur ek clamping screw ke zarie kisi bhi jagah qáim kia ja sakta hai. Crosshead ke dahni taraf ek pointer laga hua hai jo dial ke sáth istemál kia játa hai.

(ii) Dial ko zero par lagána.

No. 2 clamping screw ko dhila karke dial ko us waqt tak ghumata jata hai jab tak "0" pointer ke samne nahin a jata, phir wuh clamping screw ko kas deta hai.

Gun mount ki hui ho aur dial, zero par laga hua ho. No. 1 gun par ho. No. 2, traversing clamp ko dhila karke gun ko dahni (ya báin) taraf itna ghumáta hai kih pointer hatkar harf "R" (ya "L" jaisa hukm dia gaya ho) ki taraf chale, aur jab angle of direction ki batái hui degreeon ya minuteon par a chuke to traversing clamp ko kas deta hai. Switch minuteon ke aise adad men batáe jáen jo das par puri bár taqsim ho sake, aur durustián 10 minute se ziáda ki na lagái jáen.

2. Jawán mashq karen.

TENTISWAN SABAQ.—Elevating Wheel.

Instructor ke lie note.

Zaruri sámán.—Gun aur tripod.

- 1. Bayán karo aur namuna dikháo:-
 - (i) Bayán—Elevating wheel par degreeon ke lie chaure nishán das das minute záhir karne ke lie bárik nishán, aur pánch pánch minute záhir karne ke lie nuqte bane hote hain.

Elevating wheel ke sáth istemál karne ke lie elevating gear men ek pointer laga hota hai.

Wheel par bane hue nishánen ka matlab jawánon ko samjha dia jáe.

(ii) Gun ko elevate ya depress karna.

Gun ek shist ke nishán par lay ki hui hơ. No. 1
gun par ho. No. 1 elevating wheel ke
zarie gun ko zarurat ke mutábiq depress
ya elevate kare aur yih kám kar chukne
par shist ke nishán ke sáth phir se sighton
ki sidh miláe.

2. Jawánon se mashq karáo.

CHAUNTISWAN SABAQ.—Clinometer, Vickers, ·303-Inch M.G. Mark I.

Instructor ke lie note.

Zaruri sámán.—Gun, tripod aur clinometer.

- 1. Bayán karo aur namuna dikháo:-
- i. Bayán.—

Is ále men manganese bronze ka ek thos tukra hota hai, jis ko cradle kahte hain. Cradle ki upar ki satah arc ki shakl ki kati hoti hai, jis men arc sarak-kar chala jata hai. Nichli satah men ek faulad ka thos base jura hota hai, jiski banawat aisi hoti hai kih jab pichhla cover utha dia jata hai to base, gun ke side plateon ke darmiyan baith jata hai.

Cradle ke ek rukh par ek degree scale bana hota hai, jis par elevation aur depression ke lie 0 se 20 degree tak ke nishán hote hain. Degree ek tir ke zarie jo arc par bana hota hai parhi játi hai. Elevation aur depression ke nishánon men kála rang bhara hota hai aur un par pánch pánch degree ke hindase aur har hindase ke bád E (yane elevation) ya D (yane depression) likha hota hai.

Cradle men do bearingon par ek worm spindle laga hota hai, jis ka ek sira chul par hota hai. Is se yih faida hota hai kih jab jaldi se set karna ho to worm spindle ke dusre sire ko niche ki taraf dabakar worm ko arc se alag kar sakte hain.

Ek spring bhi laga hota hai jis ke zarie worm spindle aur arc ka miláp qáim rakha játa hai.

Worm spindle par do micrometer collar jure hote hain—ek ke zarie minuteon men depression parha játa hai aur dusre ke zarie minuteon men elevation.

Micrometer collaron par pánch pánch minute ke nishán aur das das minute ke hindase khude hote hain aur inka rang wuhi hota hai jo degree scale ka. In hindason ke niche elevation aur depression záhir karne ke lie harf E aur D likhe hote hain. Worm spindle ke ek sire par ek dandánedár sira jura hota hai, jiska ek chakkar ek degree záhir karta hai.

Arc sarak-kar cradle men chala játa hai. Iski nichli satah par dánt bane hote hain, jin men worm phansa rahta hai. Is men do pechon par degree scale ke lie ek adjustable reader laga hota hai. Iski upar ki satah par ek spirit-level laga hota hai.

Base par ek tir aur lafz "Target" khuda hota hai. Is se záhir hota hai kih clinometer ko gun ke upar thik kis rukh par rakhna cháhie.

ii. Clinometer ke zarie gun par elevation ya depression lagana.

Gun qarib qarib hamwar mount ki jae. Number 2 gun ke dahni taraf kneeling position men, clinometer apne case men zero par set kia hua aur baen kandhe par sling kia hua ho.

Number 2 clinometer ko case se nikálkar batáe hue angle par lagáta hai, aur tir ka rukh sámne ki taraf karke clinometer ko gun ke breech casing ke side plateon par rakhta hai. Clinometer is tarah rakhna cháhie kih wuh na to trigger bar lever se lage na trigger ki nok se. Elevating wheel ghumákar Number 2 spiritlevel ke bulbule ko bich men láta hai.

Kám khatm ho jáne par clinometer dobára zero par set kar dia jáe magar dusre mauqon par usko batáe hue angle par laga rahne dia jáe.

Hukm dete waqt jo angle batáya jáe wuh qarib se qarib ke itne minuteon men batáya jáe jo pánch par taqsim ho jáen. Angle lagáne men do minute se ziáda ki galati na honi cháhie.

iii. Gun ka quadrant elevation malum karna.

Gun mount ki hui aur elevation ya depression ke kisi angle par lay ki hui ho. Number 2 gun ke dahni taraf kneeling position men ho aur clinometer ko jo zero par set kia hua aur case men ho) báen kandhe par

sling kie hue ho.

Number 2 clinometer ko case se nikálkar aur uske tir ka rukh sámne ki taraf karke gun ke breech casing ke side plateon par rakhta hai. Wuh dandánedár sire ko ghumáta játa hai yahán tak kih bulbula bich men a játa hai. Ab wuh clinometer ko hatákar angle parhta hai.

Clinometer ka angle qarib se qarib ke itne minuteon. men parha jáe jo pánch par taqsim ho jáen.

iv. Jawanon se mashq karao.

PAINTISWAN SABAQ.—Clinometer KO Test KARNA.

Instructor ke lie note.

Zaruri sámán.—Gun, tripod aur clinometer.

Bayán karo aur namuna dikháo:-

- I. Clinometer ki ázmáish karna.
 - (i) Scale ko zero par set karo.
 - (ii) Clinometer ko gun par rakho aur itna elevate ya depress karo kih bulbula bich men a jáe.

(iii) Clinometer ko ulatkar dekho kih bulbula kis-

jagah hai.

- (a) Agar bulbula bich men ho to samjho kih clinometer thik hai; magar itminán karne ke lie das degree elevation aur das degree depression par bhi ázmákar dekh lo.
 - (b) Agar bulbula bich men na ho to samjho kih clinometer men galati hai.
- (iv) Galati hone ki surat men clinometer ko gun hi par rakhe rakhe minute scale ko itna ghumáo kih bulbula phir bich men a jáe, is ke bád scale par minute parh lo.

(v) Yih minute zero se jitne ziáda hon un ka ádha kar do. Ádha karne se jitne minute áen, utne hi minuteon par scale ko set kar do, masalan agar reader 20 minute E záhir karta ho to clinometer ko hatákar scale 10 minute E par set kar do.

(vi) Clinometer ko dobára gun par rakhkar (ii) aur (iii) wáli kárrawái karo. Agar bulbula bich men na áe to (iv) aur (v) wáli kárrawái duhráo.

Note.—1. Minute drum ko ghumáte waqt ákhir men hamesha báin taraf (yane ghari ki suion ki chál ke ulte rukh) ghumáo. Agar clinometer men kuchh galati hogi to wuh is tarah malum ho jáegi kih jis waqt clinometer thik pare rukh hoga zero wáli reading men farq hoga. Is galati ko yád rakhna aur jald se jald durust karána cháhie.

2. Agar kisi gun ko kisi aise clinometer se level kia jáe jiski bábat malum ho kih durust hai to phir jitne bhi clinometer maujud hon sab ki ázmáish usi gun par ki ja sakti hai, aur wuh is tarah kih har clinometer ko gun par rakhkar dekha jáe kih áya koi galati hai ya nahin aur hai to kitni.

3. Clinometer ko durust karna.

Clinometer men jitne minute ki galati malum ki gai ho, usko utne hi minute par set karo, aur spanner se micrometer collar ki dhibrián khol do. Ab paimáne ko zero par set karke dhibrián kas do.

- 4. Agar galati ziáda ho to mumkin hai kih degree reader ko nae size se set karna pare. Iske lie donon pech khol do aur zarurat ke mutábiq reader ko dahne ya báen ko sarkákar pech kas do.
- 5. Clinometer men durustián sirf armourer hi se karái jáen.

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II. Jawánon se mashq karáo.

CHHATTISWAN SABAQ.—Director, No. 4 MK. II.

Instructor ke lie note

Zaruri sámán.—Kuchh director.

1. Bayán karo aur namuna dikháo:-

Telescope ko focus karna.

Pointer.

Director par bani hui degrecon ka paimána.

Clinometer level aur elevating gear.

Degree scale plate.

Index plate ko lagákar kasne ka tariqa aur clamping screw ke kám karne ka tariqa.

Stand par charhe hue spirit-level se kám lena, aur base plate men laga hua kánta.

(i) Bayán.—Director in chizon se milkar banta hai:—

Ek telescope, vertical pointer samet. Yih box ke andar lage hote hain. Telescope, eyepiece ke zarie focus kia ja sakta hai.

Clinometer level. Yih box men báin taraf laga hota hai. Is ke yih hisse hote hain:

Ek bubble arm, ek degree scale aur micrometer head. Micrometer headon par pánch pánch minute ke nishán bane hote hain. Degree scale ka uparla ádha hissa aur uparla drum yih donon elevation ke lie hote hain; aur degree scale ka nichla ádha hissa aur nichla drum yih donon depression ke lie hote hain.

Niche ki taraf ek slider aur spring laga hota hai, jin ke zarie director ko director stand men lagate hain.

Director stand, jis ke hisse yih hote hain:—
Ek gol pattar jis men ek clamping
socket, tin qabzedar pae aur payon ke

bich men niche ki taraf ek kánta laga hota hai. Kánte men koi wazandár chiz latkái ja sakti hai jis se director stand ki sidhái malum ho sake.

Clamping socket ghumáya ja sakta hai aur us men ek clamping screw laga hota hai jis ke zarie base men clamping socket kasa játa hai.

Degree scale plate, clamping socket ki uparli satah men laga hota hai. Us par dahne báen donon taraf (R aur L) 0 se 180 tak degreeon ke nishán bane hote hain.

Is ke upar index plate laga hota hai, jis ke báhar ke kináre par ek tir ka nisháa bana hota hai. Is index plate par (a) ek dandánedár dhibri lagi hoti hai jis ke zarie index plate ko degree scale plate men kaste hain, (b) ek spirit-level laga hota hai jis ke zarie director stand sidha khara lagáya játa hai, (c) aur ek compass laga hota hai.

Carrier, jis men director slide laga hota hai, slow motion elevating gear ke zarie elevate ya depress kia jata hai.

Carrier aur slider par jo kamánián lagi hoti hain, wuh is maqsad ke lie hoti hain kih carrier aur slider ek dusre men khub jamkar baithen aur hilne julne na páen.

(ii) Director lagána.

Director aur director stand ko un ke caseon men se nikálo. Phir director ke pende ko carrier men thik thik lagáo. Páyon ko phailákar is tarah zamin par jama do kih director munásib unchái par rahe. Tajribe se malum hoga kih ek ghutna tek-kar baithne ki position sab se ziáda munásib hai, go mumkin hai kih kabhi kabhi is se niche ki position ikhtiyár karni pare. Páyen ko achchhi tarah zamin men dhansa do. Apna itminán

kar lo kih degree scale plate hamwar ya qarib qarib hamwar hai.

(iii) Angle of sight lena.

Telescope ko focus karo aur clamping screw ka pech dhila karke elevating gear aur clamping socket ke dandánedár hisse se kám lete hue pointer ki nok ko nishán par lay karo.

Ab us milled head se kám lete hue jo depression micrometer head ke niche hai, bulbule ko thik bich men le áo, aur degree scale aur micrometer headon se kám lekar angle of sight parho. Jab bulbula ek dafa thik bich men láya ja chuke to phir angle of sight kisi bhi munásib waqt par parha ja sakta hai. Angle of sight ke minute sab se qarib ke sahih adad men parhe jáen. Jab kám khatm ho chuke to tir ke nishán "zero" par laga die jáen.

(iv) Do nishánon ke darmiyán ka bagli angle nápna.

Index plate ke pointer ko degree scale ke "zero" wâle nishân ke sâmne lagăo. Clamping screw kas do. Phir elevating gear aur clamping socket ke dandânedâr hisse se kâm lete hue pointer ko donon nishânon men se pahle nishân ki sidh men lagăo aur clamping screw kas do.

Ab clamping nut dhila karke pointer ko dusre nishán par laga do.

Ab degree scale par dahne ya báen ko (yane R ya L ki taraf) degree aur minute parho (minute sab se qarib ki dahái men parhe jáen). Is bát ka bara khayál rahe kih jis waqt index plate ko sarkáya jáe degree scale plate apni jagah se khisakne na páe. Jab kabhi index plate ko sarkána ho to director ko nahin balkih carrier bracket ko pakarkar sarkáo.

Director stand ko us ke case men dálne se pahle us ke slide ko pare rukh kar lo, compass ko us ki jagah par kas do aur index plate ke pointer ko 180 degree ke nishán par lagáo.

2. Jawánon se mashq karáo.

F. 6

SAINTISWAN SABAQ.—Angle of Sight KE LIE Director KO Test KARNA.

Instructor ke lie note.

Zaruri sámán.—Director.

I. Angle of sight ke lie director ko test karna.

Yih is tarah kia jáe:—

(i) Koi aisi position chun lo jahán do aisi diwáren ya sidhe khambe hon jo ek dusre se koi 200 gaz ke fásile par hon aur jahán tak ho sake donon pare rukh ki ek hi

satah par hon.

Ab director ko ek diwár par kisi jagah lagáo, agar ho sake to wuh jagah kisi makán ka kona ho. Agar director No. 4, Mark II ko test karna ho to degree scale aur minute scale ko zero par lagáo. (Bád ke bane hue director ko test karne ke lie aisa karne ki zarurat nahin hoti). Ab ále ko dusri (yane dur ki) diwár par lay karo aur elevating gear ke zarie bulbule ko thik bich men láo.

Ab telescope men se dekhte hue kisi jawán ko dusri diwár par wuh jagah batáo jis par director lay kia gaya hai aur jawán se kaho kih us jagah nishán laga de. Is nishán ka nám (B) hoga. Pahli diwár jis ke pás tum khare ho us par bhi nishán lagáo; is nishán ki unchái director ke object glass ki unchái jitni ho. Is nishán ka nám (A) rakho.

(iii) Ále ko dur wáli diwár ke pás le jáo aur object glass ko us diwár par bane hue nishán (B) par lagáo. Agar director No. 4, Mark II namune ka ho to degree scale ko zero par laga rahne do. Ab elevating gear ke zarie

bulbule ko thik bich men láo.

Ab agar ála nishán (A) par lay kia hua ho to samajh lo kih ála durust hai.

(iv) Agar ek se ziáda ále test karne hon to koi thik pari lakir hásil karne ki zarurat hogi.

Agar ála nishán (A) par lay kia hua ho, jaisa kih upar (iii) men bayán kia ja chuka hai, to (A) aur (B) ko miláne wáli farzi lakir thik pari lakir hogi aur us ke zarie aur ále bhi test kie ja sakenge.

Agar ála nishán (A) par lay hua na ho aur bulbula bich men ho, to kisi ádmi se pahli diwár par us jagah jahán ála lay ho raha hai nishán (C) lagwáo.

Ab pahli diwár par (A) aur (C) ke thik bich men ek tisra nishán (D) lagáo. Nishán (D) ko nishán (B) se miláne se ek thik pari lakir ban j'áegi.

Is ko durust sábit karne ke lie ále ko nishán (D)
par rakho aur phir nishán (B) par lay
karke durusti ki jánch karo.

Jab pari lakir hásil ho jáe, to báqi ále uske zarie test aur durust kie ja sakte hain.

(v) Pari lakir hásil ho jáne ke bád ále ko test karna shuru karo.

Agar No. 4 Mark II namune ka director test karna ho to degree scale aur minute scale ko zero par laga lo. (Bád ke bane hue directoron ko test karne ke lie aisa karne ki zarurat nahin hoti).

Object glass ko pari lakir ke kisi ek sire par lagáo aur elevating gear ke zarie director ko pari lakir ke dusre sire ke nishán par lay, karo. Ab bulbula thik bich men hona cháhie. Agar thik bich men na ho to micrometer head ko us waqt tak ghumáo jab tak bulbula thik bich men na a jáe. Phir dekho kih kitni galati hai.

Agar aise namunon ke directoron ko test karna ho jo No. 4 Mark II ke bád bane hon, to yih zaruri hoga kih unhen sámne ke nishán par lay kia jáe aur yih dekh lia jáe kih bulbula thik bich men hai ya nahin. Agar bulbula thik bich men na ho to telescope ko us waqt tak

elevate ya depress karte raho jab tak bulbula thik bich men a jáe. Phir telescope ke eyepiece men se dekho kih kitni galati hai.

Note.—Agar director ke durust karne ki zarurat ho to yih kám armourer hi kare.

II. Jawánon se mashq karáo.

ARTISWAN SABAQ.—Rule, Slide, M.G. Mark 1.

Instructor ke lie note.

Zaruri sámán.—Kuchh slide rule aur blackboard.

Bayán karo aur namuna dikháo:-

1. Rule, slide, M.G. Mark I.

Slide rule par yih scale (paimane) wagaira bane hote hain:—

- (a) Safety angle scale.
- (b) Degree scale—Graticule cord.
- (c) V.I. scale aur H.E. scale.
- (d) Wind scale.
- (e) Barometer scale aur temperature scale.
- (f) 1/20,000 scale, gaz záhir karne ke lie.
- (g) Ek inch fi mile wála scale, gaz záhir karne ke lie.
 - (h) Degree scale—yih fauji protractor ke scale jaisa hota hai.
 - (i) Range table.
- (a) Safety angle scale.—Rule par ek Range to target scale (target tak ke fásile ka paimána) bana hota hai, jis par 600 se 2800 tak sau sau gaz ke nishán bane hote hain. Is scale ke sámne slide par Range to troops scale (apni faujon tak ke fásile ka scale) bana hota hai, jis par 600 se 2000 gaz tak ke kále nishán aur 500 se 100 gaz tak ke lál nishán bane hote hain.

Safety angle scale se muqarrar hidáyaton ke mutábiq kám lia játa hai. Is se kám lene ke lie slide rule ki choti par ek 24 inch lambi rassi bándhi hoti hai.

Ihtiyát rakhi jác kih is rassi men giráh na pare aur is ki lambái thik 24 inch rahe.

- (b) Degree scale—graticule cord.—Slide par uski choti se pare ek degree scale bana hota hai. Is ke aláwa slide par ek tir bana hota hai, jo graticule záhir karne ke lie us rassi ke sáth istemál ho sakta hai jo slide rule men lagi hoti hai.
- (c) V.1. scale aur H.E. scale.—V.1. scale par 300 se 10 tak das das gaz ke nishán bane hote hain. Is scale ke sáth ek H.E. scale bhi hota hai, jis par 3,000 se 100 tak sau sau gaz ke nishán bane hote hain. Iske aláwa ek degree scale hota hai jis par zero degree se das degree tak ke nishán bane hote hain.

Slide par ek tir bana hota hai, jis ke zarie V.I. aur H.E. scaleon ki madad se angle parhe ja sakte hain.

(d) Wind scale.—Slide ke ulti taraf 20 mile fi ghanta chalne wáli hawa ka haq rakhne ke lie nishán bane hote hain. Ek taraf dahne ya báen ko chalne wáli hawa ka haq dia hua hota ha, jis ke lie 115 minute se 10 minute tak ke nishán bane hote hain; aur dusri taraf áge ya pichhe ko chalne wáli hawa ka haq dia hua hota hai, jiske lie 90 minute se 5 minute tak ke nishán bane hote hain.

Slide rule ki pusht par upar ki taraf jo kata hua hissa hota hai uske bich men hawa ke lie ek pointer hota hai.

- (e) Barometer scale aur temperature scale.—Slide ke ulti taraf 1 inch barometer ka haq zahir karne ke lie 5 minute se 25 minute tak ke nishan bane hote hain.
- 20 degree temperature (harárat) ka haq záhir karne ke lie 5 minute se 35 minute tak ke nishán bhi bane hote hain.

Rule ki pusht par niche ki taraf jo kata hua hissa hota hai uske bich men ek pointer hota hai.

- (f) 1/20,000 scale.—Is scale par pachás pachás gaz ke nishán bane hote hain. Sau, pánch sau aur hazár gaz wále nishán bare hote hain. Hazár gaz wále nishánon par pure hindase likhe hote hain.
- (g) Ek inch fi mile wála scale.—Is scale par sau sau gaz ke nishán bane hote hain. Bare nishán hazár hazár gaz záhir karte hain.
- (h) Degree scale—protractor.—Dhalwán kináre ke bich men ek protractor degree scale hota hai, jis par zero degree se 90 degree tak ke nishán bane hote hain. Is scale ko rule ke dusre dhalwán kináre ke zero ke sáth milákar istemál karte hain.
- (i) Range table.—Slide ki pusht par niche batái hui báten likhi hoti hain jo Range tableon men se naql ki játi hain:—

Tangent angle, angle of descent, beaten zoneon aur coneon ki lambái, cone ki bich ki jagah se sab se niche girne wáli goli ka fásila.

2. Jawánon se mashq karáo.

UNTALISWAN SABAQ.—Night Sight.

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Instructor ke lie note.

Zaruri sámán.—Gun, tripod, night sight, kuchh mekhen aur torch.

Bayán karo aur namuna dikháo:-

- I. Night sight, Vickers ·303-inch M.G.
- (i) Foresight fauládi chádar ka chaukor plate hota hai. Yih plate ek fauládi body par khare rukh laga hota hai, jis men spring arm hote hain. In spring armon ke zarie foresight ko deflection bar foresight ke sliding sight ke protecting wingon ke sáth jorte hain. Agar zarurat ho to foresight ko gun ke foresight bracket ke sáth bhi jor sakte hain.

Foresight ko deflection bar foresight ke sáth jorne ka tariqa yih hai kih spring armon ki madad se uske us pahlu ko protecting wingon par laga den jo gun ke breech ki taraf ho.

(ii) Backsight khare rukh laga hua ek chaukor fauládi plate hota hai.

Plate ek chhote se fauládi tukre ke sáth jura hota hai, jis men ek spring clip laga hota hai. Yih clip, gun ke tangent sight slide men lag játa hai.

Backsight ko tangent sight slide ke sáth jorne ka tariqa yih hai kih usko báin taraf se dabákar nikle hue blade par rakha jáe. Aisa karte waqt is bát ka khayál rahe kih fauládi tukre ka pare rukh wála kinára blade ke upar wále kináre par pare: aur spring ke dahni taraf ka mura hua sira slide ke andar wále kináre men lag jáe.

- II. (a) Instructor, night sight se kám lete hue direction peg par thik shist lene ka namuna dikháe.
 - (b) Jawánon se mashq karáo.
- (c) Jawánon se andhere men shist lene ki mashq karáo.

Mashq karáte waqt instructor torch se direction peg par raushni dále.

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A. Prophy and A. Transparis September 1982



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